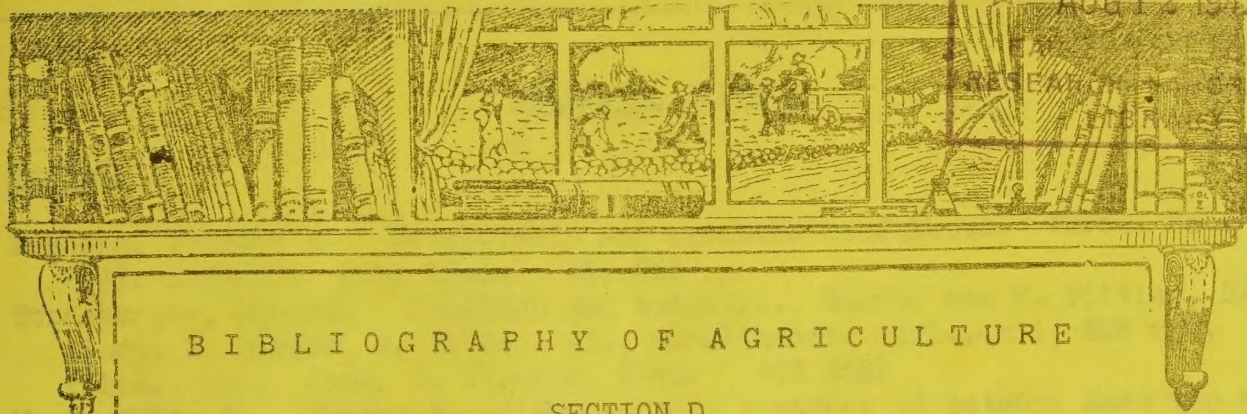
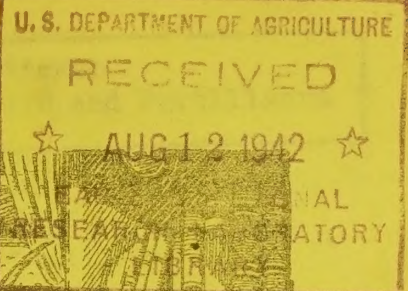


UNITED STATES DEPARTMENT OF AGRICULTURE
Library



BIBLIOGRAPHY OF AGRICULTURE

SECTION D
PLANT SCIENCE

Vol. 1

July 1942

No. 1

The Bibliography of Agriculture is issued monthly
in four sections.

Section A, Agricultural Economics and Rural Sociology.
Supersedes Agricultural Economics Literature.

Section B, Agricultural Engineering. Supersedes Cur-
rent Literature in Agricultural Engineering.

Section C, Entomology. Supersedes Entomology Current
Literature.

Section D, Plant Science. Supersedes Plant Science
Literature.

Abbreviations used in this publication are those listed in U. S. Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications. April 1939.

Call numbers following the citations are those of the U. S. Department of Agriculture Library unless otherwise noted.

The Department can supply only its own publications; other items cited may ordinarily be obtained from their respective publishers. Many of them are available for consultation in public or other libraries.

Photoprint or microfilm copies of any publication listed may be obtained from the Library. Order blanks giving prices and method of payment will be sent on request.

This list is arranged under three main sections:
 Botanical Science; Crop Plants, including diseases; Soils and Fertilizers

BOTANICAL SCIENCE

General

- Fosberg, Francis R. Scholarship and economic usefulness. Chron. Bot. 7(4): 154-155. July 1942. 450 C46
- Strasburger, Eduard. Lehrbuch der botanik... bearb. von H. Fitting, H. Sierp, R. Harder, F. Firbas. 21., unveränderte Aufl...xii, 626 pp., illus., map. Jena, G. Fischer, 1942. 463 St8L
- Went, Frits W. Centenary of Schleiden's textbook of botany: Have the aims of botany changed? Chron. Bot. 7(4): 145-148. July 1942. 450 C46

Bibliography

- Ewan, Joseph A. Bibliographical miscellany. IV. A bibliogeographical guide to the Brandegee botanical collections. Amer. Midland Nat. 27(3): 772-789. May 1942. Annotated bibliography. 410 M58

Biography

- The late E. J. Wortley, C. M. G., O. B. E. Trop. Agr. [Trinidad] 19(6): 103. June 1942. 26 T754
 Died April 27, 1942.
- Palézieux, P. de. Monsieur le Dr. Karl-Hermann Zahn (1865-1940). Soc. Bot. de Genève Bul. II, 32: 192-194. 1941. 451 G283B
- Walkom, Arthur B. Walter Wilson Froggatt, 1858-1937. Linn. Soc. N. S. Wales Proc. 67(1/2): 77-81, pl. iii (port.) May 15, 1942. 514 Sy2
- Weatherby, Charles A. Frederick Gillan Floyd. Amer. Fern Jour. 32(2): 79-80. Apr./June 1942. 450 Am35
 Died Jan. 10, 1941.
- William Faris Blakely. Linn. Soc. N. S. Wales Proc. 67(1/2): ii. May 15, 1942. 514 Sy2
 Died Sept. 1, 1941.
- Zahniser, Howard. Vernon Orlando Bailey 1864-1942. Science 96(2479): 6-7. July 3, 1942. 470 Sci2

Systematic Botany

- Camp, Wendell H. The Crataegus problem. Castanea 7(4/5): 51-55. Apr./May 1942. Bibliography. 450 So82
- Constance, Lincoln. The genus Hydrophyllum L. Amer. Midland Nat. 27(3): 710-731, illus. (incl. maps). May 1942. References. 410 M58
- Fosberg, Francis R. Notes on North American plants. III. Amer. Midland Nat. 27(3): 761-765. May 1942. 410 M58
- Higgins, Vera. Cotyledon oppositifolia. Alpine Gard. Soc. Quart. Bul. 10(2): 137-138, 141. June 1942. 84 A16
- Löve, Doris. A tetraploid, dioecious Melandrium found in nature. Hereditas 28(1/2): 241-242. Jan. 8, 1942. Literature cited. 442.8 H42
 M. crassifolium.

- Marshall, William T., and Bock, Thor M. Cactaceae, with illustrated keys to all tribes, sub-tribes and genera. xiv, 227 pp., illus., plates. Pasadena, Abbey garden press, 1941. Bibliography. 452.3 M35
- Myers, James C. A new variety of *Polygonum pensylvanicum* L. *Castanea* 7(4/5): 74-75. Apr./May 1942. 450 So82
P. pensylvanicum var. *eglandulosum*.
- Pilar Rodrigo, América del. Una nueva especie de Malvacea del género *Sphaeralcea* de la flora Argentina; *Sphaeralcea chenopodifolia* nov. sp. La Plata Mus. Notas 6(Bot. no. 33): 387-392, illus. Nov. 13, 1941. 451 L31
- Rupp, Herman M. Notes on *Pterostylis daintreyana* and *Pterostylis parviflora* in Queensland. *Queensland Nat.* 12(2): 35. May 1942. 410 Q3
- Scanlan, Grace M. A study of the genus *Cyperus* in the Hawaiian Islands. Catholic Univ. Amer. Biol. Ser. 41, viii, 62 pp. Washington, D. C., 1942. Selected bibliography. 442.9 C28
- Schweinfurth, Charles. Orchidaceae peruviana. IV. Harvard Univ. Bot. Mus. Leaflet 10(7): 173-199, illus., pl. xvii-xxiv. July 8, 1942. 451 H262
 New species and varieties of *Pleurothallis* and *Octomeria*.
- Swallen, Jason R. Two new grasses from Florida and Texas. *Wash. Biol. Soc. Proc.* 55: 93-94. July 3, 1942. 500 W272
Panicum pinetorum, *Paspalum texanum*.
- Turrill, William B. Description of some Greek fritillaries. (concl.) *Gard. Chron.* 111(2892): 228; (2894): 248. May 30, June 13, 1942. 80 G162
F. sphaciotica - *F. ehrharti*, *F. tuntasia*. The issue for June 6 has not been received.
- Wale, R. S. Caucasian *Semperviva*. *Alpine Gard. Soc. Quart. Bul.* 10(2): 83-107, incl. illus., map. June 1942. 84 A16
S. ingwersenii, *S. borissovae*, *S. ossetiense*, n. spp.
- Wherry, Edgar T. The genus *Polemonium* in America. *Amer. Midland Nat.* 27(3): 741-760. May 1942. Bibliographical footnotes. 410 M58
- Williams, Louis O. A new *Pleurothallis* from Mexico. *Amer. Orchid Soc. Bul.* 11(2): 65, pl. 2. July 1, 1942. 80 Am329
P. calypotrosepala.

Ferns and Fern Allies

- Blake, Sidney F. The ostrich fern as an edible plant. *Amer. Fern Jour.* 32(2): 61-68, illus. Apr./June 1942. 450 Am35
Pteretis nodulosa (Michx.) Nieuwl.
- Maxon, W. R. New tropical American ferns. XIII. *Amer. Fern Jour.* 32(2): 58-61. Apr./June 1942. 450 Am35
Alsophila killipii, *Bommeria knoblochii* n. spp.
- Proctor, George R. Fern census of a city block. *Amer. Fern Jour.* 32(2): 70-71. Apr./June 1942. 450 Am35
 In Marietta, Ohio, in a thickly built-up residential block.
- Smith, Mrs. Frank C., jr. Fern garden. *Gard. Club Amer. Bul.* 8(1): 38-42. July 1942. 90.32 G16
 On Lake Umbagog, Nelson, New Hampshire.
- Soxman, G. M. *Asplenium palmeri* in Texas. *Amer. Fern Jour.* 32(2): 71-72. Apr./June 1942. 450 Am35
 First record in Texas, north of Fort Davis, Jeff Davis County.

- Thurston, Edward D. An amateur's fern garden. Amer. Fern Jour. 32(2): 41-57, pl. 5-7. Apr./June 1942. 450 Am35
- Wagner, W. H., jr. Wall rue on walls. Amer. Fern Jour. 32(2): 69-70. Apr./June 1942. 450 Am35
- Asplenium ruta-muraria. Found 1/3 mile above Seneca Creek, Maryland.
- Weatherby, Charles A. Fée isotypes at Colorado college. Amer. Fern Jour. 32(2): 68-69. Apr./June 1942. 450 Am35
- White, Cyril T. A rare lycopod from the Lamington national park, S. E. Queensland. Queensland Nat. 12(2): 32-33, pl. May 1942. 410 Q3
- Lycopodium varium.

Fungi

- Chace, William G., and Urlaub, George S. A new culture medium for the growth of Chaetomium globosum. Amer. Dyestuff Rptr. 31(14): 331-333, illus. July 6, 1942. Bibliography. 306.8 Am3
- Cooke, William B. Resupinate pore fungi in Oregon. Amer. Midland Nat. 27(3): 677-695. May 1942. References. 410 M58
- Hirschhorn, Elisa. Una ustilaginacea nueva de la flora Argentina (Ustilago chacoënsis). La Plata Mus. Notas 6(Bot. no. 34): 479-483, illus. Dec. 11, 1941. Bibliography. 451 L31
- On Cyperus rotundus.
- Jenkins, Anna E., and Ruehle, George D. A new species of Sphaceloma on poinsettia. Wash. Biol. Soc. Proc. 55: 83-84. June 25, 1942. 500 W272
- S. poinsettiae.
- Kallós-Deffner, Liselotte. Zur serologischen differenzierung von hefearten. Arkiv för Bot. v. 30B, no. 1, 2 pp. Feb. 25, 1942. Literature. 451 Sv2
- Karling, John S. The Plasmodiophorales. 144 pp., illus. New York, The author, 1942. Bibliographies. 462.03 K14
- Martin, George W. New or noteworthy tropical fungi - II. Lloydia 5(2): 158-164, illus. June 1942. 442.8 L77
- Murrill, William A. New fungi from Florida. Lloydia 5(2): 136-157. June 1942. 442.8 L77
- Robbins, William J., and Kavanagh, Virgene. Vitamin deficiencies of the filamentous fungi. Bot. Rev. 8(7): 411-471. July 1942. Bibliography. 450 B6527
- Summary of the literature on the relation of vitamins to growth.
- Singer, Rolf. Type studies on agarics. Lloydia 5(2): 97-135. June 1942. 442.8 L77
- Vecchierello, Hubert. A check list of the myxomycetes of Cattaraugus county, N. Y. St. Bonaventure Col. Sci. Studies 9(4): 21-23, 26. June 1941. Bibliography. 470 Sci29
- Verner, A., Malyshkin, P., and Kvint, N. Development of fungi in the soil. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(8): 812-814. June 20, 1941. References. 511 P444

Cryptogams other than Fungi

- Ahlner, S. Weitere beiträge zur strauch- und laubflechtenflora von Åsele Lappmark. II. Arkiv för Bot. v. 30A, no. 2, 10 pp. Feb. 25, 1942. 451 Sv2
- Böhner, Philotheus. A list of mosses found in Cattaraugus county, New York. St. Bonaventure Col. Sci. Studies 10(3): 25-27. Mar. 1942. References. 470 Sci29

- Böhner, Philotheus. A preliminary check list of mosses found in Cattaraugus county, N. Y. I-II. St. Bonaventure Col. Sci. Studies 9(3): 4-6; (4): 4-7, 28. Mar., June 1941. 470 Sci29
- Daily, William A. The Chroococcaceae of Ohio, Kentucky, and Indiana. Amer. Midland Nat. 27(3): 636-661, illus. May 1942. 410 M58
- Coelosphaerium collinsii* n. sp.
- Degelius, Gunnar. Contributions to the lichen flora of North America. I-II. Arkiv för Bot. v. 30A, no. 1, 62 pp.; v. 30A, no. 3, 80 pp., illus., 2 pl. Feb. 25, 1942. Literature cited. 451 Sv2
- I. Lichens from Maine. II. The lichen flora of the Great Smoky Mountains.
- Kylin, Harald. Californische rhodophyceen. Lunds Univ. Årsskr. n.f., avd. 2, v. 37, no. 2. 51 pp., illus., 13 pl. 1941. Literature cited. 502 L97
- Magnusson, Adolf H. New species of *Cladonia* and *Parmelia* from the Hawaiian Islands. Arkiv för Bot. v. 30B, no. 3, 9 pp. Feb. 25, 1942. 451 Sv2
- Palmer, Charles M. Additional records for algae, including some of the less common forms. Butler Univ. Bot. Studies 5(9/17): 224-234, illus. Apr. 1942. 451 B97
- Palmer, Charles M. Lemanea herbarium packets containing more than one species. Butler Univ. Bot. Studies 5(9/17): 222-223. Apr. 1942. Literature cited. 451 B97
- Prescott, Gerald W., and Croasdale, Hannah T. The Algae of New England. II. Additions to the freshwater algal flora of Massachusetts. Amer. Midland Nat. 27(3): 662-676, illus. May 1942. References. 410 M58
- Randhawa, M. S. Akinete formation in *Vaucheria geminata*. Bot. Gaz. 103(4): 809-811, illus. June 24, 1942. Literature cited. 450 B652
- Probably variety *longistipitata*.
- Studhalter, Richard A. The foot of *Riella americana* and its relation to nutrition of the sporophyte. Bot. Gaz. 103(4): 633-650, illus. June 24, 1942. Literature cited. 450 B652
- Thomson, John W., jr. The lichen genus *Cladonia* in Wisconsin. Amer. Midland Nat. 27(3): 696-709, illus. (map) May 1942. References. 410 M58

Geographic Botany and Ecology

- Blake, Stanley T. Deserts. Queensland Nat. 12(2): 24-32. May 1942. 410 Q3
- Brunson, Margaret E. Distribution of Indiana Orchidaceae. Butler Univ. Bot. Studies 5(9/17): 173-178, illus. (map). Apr. 1942. Literature cited. 451 B97
- Doncaster, E. D. Endemics of Ali Butusch [in Bulgaria]. Alpine Gard. Soc. Quart. Bul. 10(2): 129-131, illus. June 1942. 84 A16
- Dyer, Robert A. The desirability of a Pan-African botanical policy. So. African Jour. Sci. 38: 56-68. Jan. 1942. 515 So84
- Guss, Joanna S. The origin of the flora of the chestnut oak upland region of Indiana. Butler Univ. Bot. Studies 5(9/17): 117-133, illus. (incl. map). Apr. 1942. Literature cited. 451 B97
- Ingwerson, Walter E. T. Plant hunting in the Pirin mountains of Bulgaria. Alpine Gard. Soc. Quart. Bul. 10(2): 112-128, illus. June 1942. 84 A16
- Lothian, Noel. Alpine flora of New Zealand. Victorian Nat. 59(2): 35-36. June 1942. 410 V66
- Lundell, Cyrus L. The vegetation and natural resources of British Honduras. Chron. Bot. 7(4): 169-171, illus. (map). July 1942. Bibliography. 450 C46

- Martynenko, M. A. Ein neuer vertreter der reliktenflora des Altai. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 958-960, illus., (map). June 30, 1941. Literature cited. 511 P444
Galium paradoxum.
- Metcalf, Franklin P. Flora of Fukien and floristic notes on southeastern China. fasc. 1. 82 pp., illus. (maps). [New York, Lingnan University, 1942. 460.14 M56
- Molestina O., Ernesto. Reseña agrícola del Ecuador. Chron. Bot. 7(4): 167-169. July 1942. 450 C46
- Navarro de Andrade, Edmundo. Contribuição para o estudo da flora florestal Paulista. Vocabulário de nomes vulgares. 62 pp. São Paulo, 1941. 457.2 N220
- Potzger, John E., and Richards, Ruth R. Forest succession in the Trout lake, Vilas county, Wisconsin area: a pollen study. Butler Univ. Bot. Studies 5(9/17): 179-189. Apr. 1942. Literature cited. 451 B97
- Potzger, John E., Friesner, Ray C., and Keller, Carl O. Phytosociology of the Cox woods: a remnant of forest primeval in Orange county, Indiana. Butler Univ. Bot. Studies 5(9/17): 190-221, tables. Apr. 1942. Literature cited. 451 B97
- Rigg, George B. A raised cattail-tule bog in Yellowstone National Park. Amer. Midland Nat. 27(3): 766-771, illus. May 1942. References. 410 M58
- Ripley, Dwight. Rarities of western North America. Alpine Gard. Soc. Quart. Bul. 10(2): 73-80, illus. June 1942. 84 A16
 Alpine plants collected in California, New Mexico, Texas and Nevada.
- Shreve, Forrest. The vegetation of Jamaica. Chron. Bot. 7(4): 164-166. July 1942. 450 C46
- Stewart, H. C. E. Botanical paradise or cattle-run? [Mount Buffalo, Victorian Nat. 59(2): 29-32, pl. iv. June 1942. 410 V66
- Thommen, Edouard. Contributions à la flore du département de l'Ain. Soc. Bot. de Genève Bul. II, 32: 103-154, illus. (incl. map). 1941. 451 G283B
- Tillotson, Harry S. Trappers of the pine barrens. Amer. Forests 48(7): 311-313, illus. July 1942. 99.8 F762
 Insectivorous plants.
- Tosh, John P. The vascular plants of Raleigh county, West Virginia. Castanea 7(4/5): 55-70. Apr./May 1942. 450 So82
- Vecchierello, Hubert. A check list of the more common plants found on the campus and within ten miles of St. Bonaventure college. V-X. St. Bonaventure Col. Sci. Studies 9(3): 10-12, 39; (4): 11-15, 27. Mar., June 1941; 10(1): 12-16; (2): 12-16; (3): 3-9; (4): 3-7, 39. Nov. 1941, Jan., Mar., June 1942. Bibliography. 470 Sci21

Paleobotany

- Brown, Roland W. Supposed extinct maples. Science 96(2479): 15. July 3, 1942. 470 Sci2
 The two species of *Acer* described by D. P. Penhallow from Don Valley, Toronto, are variant leaves of *Platanus occidentalis*.
- Sears, Paul B. Forest sequences in the north central states. Bot. Gaz. 103(4): 751-761, illus. (incl. map). June 24, 1942. Literature cited. 450 B652
 Based on fifteen pollen profiles from as many peat deposits in Illinois, Indiana, Michigan and Ohio.

Technique

- Anderson, Thomas F. The application of the electron microscope to biology. Collecting Net 17(1): 4-6. July 4, 1942. 442.8 C68.
- Fisher, Paul J., and Conn, Jean E. A flagella staining technic for soil bacteria. Stain Technol. 17(3): 117-121, illus. July 1942. References. 442.8 St1
- Haskin, Harold H. A spectrophotometric method for the analysis of chloroplast pigments. Jour. Biol. Chem. 144(1): 149-160, diags. June 1942. Bibliography. 381 J824
- Experiments with *Chlorella pyrenoidosa*.
- Ostergren, G. Note on the acetocarmine method. Hereditas 28(1/2): 239-240. Jan. 8, 1942. Literature cited. 442.8 H42
- Roe, Alden F. Reclaiming agar for bacteriological use. Science 96(2479): 23. July 3, 1942. 470 Sci2
- Thaller, Howard I. Reclamation of used agar. Science 96(2479): 23-24, illus. July 3, 1942. 470 Sci2

Chemistry

- Gomoljako, L. G. Ueber eine neue quelle des karotins (pro-vitamin A). Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(2): 142-143. July 20, 1941. Literature cited. 511 P444
- Ribes aureum*.
- Grebinsky, S. O. Changes in the chemical composition of cultivated plants when grown in the mountains (beet, peas, *Nicotiana rustica*, barley). Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(4): 285-287. Aug. 10, 1941. References. 511 P444
- Kerkis, Iulii I., and Pigulevskaya, N. N. Interaction between *Lycopersicum esculentum* and *Datura stramonium* in the case of grafting. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(7): 505-508, illus. Sept. 10, 1941. 511 P444
- Northen, Henry T. Relationship of dissociation of cellular proteins by auxins to growth. Bot. Gaz. 103(4): 668-683. June 24, 1942. Literature cited. 450 B652
- Experiments with beans.
- Rubin, B. A., Artzikhovskaya, E. V., and Spiridonova, N. S. Daily rhythm in the action of invertase and its dependence on illumination. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 917-920. June 30, 1941. References. 511 P444
- Experiments with young plants of sugar beet.
- Rubin, B. A., Artzikhovskaya, E. V., and Lutikova, O. T. A method for determining the synthetic activity of amylase in living vegetable tissue. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 914-916. June 30, 1941. References. 511 P444
- Rubin, B. A., and Spiridonova, N. S. Rôle of oxidizing activity of vegetable tissue in the synthesis of ascorbic acid. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(6): 607-609. May 30, 1941. References. 511 P444
- Rubin, B. A., and Artzikhovskaya, E. V. Rôle of the invertase in the synthesis of starch by the vegetable cell. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(7): 675-678. June 10, 1941. References. 511 P444
- Experiments with wheat seedlings.

- Sapozhnikov, D. I. A new method for determining the concentration of chlorophyll. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(5): 369-371, illus. Aug. 20, 1941. References. 511 P444
- Shmuck, Alexander A., and Borozdina, A. Alkaloids of various plant species within the genus Nicotiana. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(1): 62-65. July 10, 1941. References. 511 P444
- Shmuck, Alexander, Smirnov, A., and Ilyin, G. Formation of nicotine in plants grafted on tobacco. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(5): 365-368. Aug. 20, 1941. References. 511 P444
- Smith, Emil L. The chlorophyll-protein compound of the green leaf. Chron. Bot. 7(4): 148-149. July 1942. Bibliography. 450 C46

Genetics and Breeding

- Babcock, Ernest B., Stebbins, George L., jr., and Jenkins, James A. Genetic evolutionary processes in Crepis. Amer. Nat. 76(765): 337-363, illus. July/Aug. 1942. Literature cited. 470 Am36
- Bonnier, Gert. The Z^2 linkage test. Hereditas 28(1/2): 230-232. Jan. 8, 1942. 442.8 H42
- Erlandsson, Stellan. The chromosome numbers of three Eriocaulon species. Arkiv för Bot. v. 30B, no. 2, 4 pp., illus. Feb. 25, 1942. Literature cited. 451 Sv2
- Fröjer, Kare, Gustafsson, Åke, and Tedin, Olof. The relation of mitotic disturbances to X-ray dosage and polyploidy. Hereditas 28(1/2): 165-170. Jan. 8, 1942. Literature cited. 442.8 H42
- Hair, J. B. The chromosome complements of some New Zealand plants. I. Roy. Soc. New Zeal. Trans. and Proc. 71(4): 271-276, illus. Mar. 1942. References. 514 W46
- Khvostova, V. V., and Goldat, S. J. Colchicine induced tetraploids in chrysanthemum. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(6): 623-624. May 30, 1941. References. 511 P444
- Hybridization work with the pyrethrum containing species.
- Löve, Askell. Polyploidy in Polygonum convolvulus L. (s. lat.). Hereditas 28(1/2): 227-228, illus. Jan. 8, 1942. Literature cited. 442.8 H42
- Müntzing, Arne, and Müntzing, G. Recent results in Potentilla. Hereditas 28(1/2): 232-235. Jan. 8, 1942. Literature cited. 442.8 H42
- Sokolovskaya, Aleksandra P., and Strelkova, O. S. Polyploidy and karyological races under conditions in the Arctic. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(2): 144-147. July 20, 1941. References. 511 P444

Physiology and Morphology

- Allard, Harry A. Growth-behavior of Stellaria pubera. Castanea 7(4/5): 70-72. Apr./May 1942. 450 So82
- American society of plant physiologists. A symposium on the structure of protoplasm. Ed. by William Seifriz. 283 pp. Ames, Iowa state college press, 1942. 442 Am34
- Includes contributions by C. W. Hock, C. L. Huskins, N. Kamiya, W. H. Lewis, D. A. Marsland, L. S. Moyer, G. W. Scarth, and O. L. Sponslor.
- Bausor, Sydney C. Interrelation of organic materials in the growth substance response. Bot. Gaz. 103(4): 710-724, illus. June 24, 1942. Literature cited. 450 B652
- Experiments with tomato and kidney bean plants.

- Beauverd, Gustave. Remarques sur les glandes extra-staminales de quelques géraniacées. Soc. Bot. de Genève Bul. II, 32: 195-197. 1941.
451 G283B
- Browne, Isabel M. P. A sixth contribution to our knowledge of the anatomy of the cone and fertile stem of Equisetum. Ann. Bot. [London] (n.s.) 5(19): 425-453, illus. July 1941. Literature cited. 450 An7
- Cajlachjan, M. C., and Lukovnikov, E. K. Development of plants growing under different light conditions as affected by mineral nutrition. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(2): 152-155, illus. July 20, 1941. References. 511 P444
- Cajlachjan, M. C. Photoperiodism of chlorotic plants. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 945-948, illus. June 30, 1941. References. 511 P444
Experiments with millet and soybean.
- Cajlachjan, M. C. Translocation of flowering hormones in the plant as affected by temperature and narcotics. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 949-952, illus. June 30, 1941. References. 511 P444
- Cajlachjan, M. C., and Zhdanova, L. P. Tuber formation as controlled by photoperiod and pruning. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(2): 156-160, illus. July 20, 1941. References. 511 P444
- Croizat, Leon. Peculiarities of the inflorescence in the Euphorbiaceae. Bot. Gaz. 103(4): 771-779, illus. June 24, 1942. 450 B652
- Daubenmire, Rexford F., and Charter, H. E. Behavior of woody desert legumes at the wilting percentage of the soil. Bot. Gaz. 103(4): 762-770, illus. June 24, 1942. Literature cited. 450 B652
Prosopis velutina, Acacia greggii, A. constricta.
- Evenari, Michael, Konis, E., and Ullman, S. B. The inhibition of germination. Chron. Bot. 7(4): 149-150. July 1942. 450 C46
- Fagerlind, Polke. Kommt agamospermie bei den canina-rosen vor? Hereditas 28(1/2): 224-227. Jan. 8, 1942. Literature cited. 442.8 H42
- Gericke, William F. The integration of vegetation. Quart. Rev. Biol. 17(2): 149-162. June 1942. 442.8 Q2
- Greulach, Victor A. Photoperiodic after-effects in six composites. Bot. Gaz. 103(4): 698-709, illus. June 24, 1942. Literature cited. 450 B652
- Heath, O. V. S. Experimental studies of the relation between carbon assimilation and stomatal movement. II. The use of the resistance porometer in estimating stomatal aperture and diffusive resistance. (I) A critical study of the resistance porometer. Ann. Bot. [London] (n.s.) 5(19): 455-500, illus. July 1941. Literature cited. 450 An7
Appendix by H. L. Penman.
- Holubinsky, Ivan N. Influence of temperature alternation on the germinable power of hop seeds (Humulus lupulus L.). Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(1): 85-86. July 10, 1941. References. 511 P444
- Khlebnikova, N. A., and Moskovetz, K. G. On the biology of Chenopodium ambrosioides L. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(2): 161-162. July 20, 1941. 511 P444
- Kurz, H. The effect of cold storage on certain native American perennial herbs. II. Wild Flower 19(2): 28-34, pl. viii. Apr. 1942. 451 W642
- Levan, Albert. The macroscopic colchicine effect, a hormonal action? Hereditas 28(1/2): 244-245. Jan. 8, 1942. Literature cited. 442.8 H42
- Mann, Louis K. Effects of photoperiod on sex-expression in Ambrosia trifida. Bot. Gaz. 103(4): 780-787, illus. June 24, 1942. Literature cited. 450 B652

- Melin, Elias. Växthormoner och deras betydelse (Wuchsstoffe (hormonen) und deren bedeutung im pflanzenbau). K. Lantbruksakad. Tidskr. 80(5): 413-421. 1941. 104 Sw3
- Moshkov, Boris S. On the photoperiodic after-effect. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(7): 699-701. June 10, 1941. References. 511 P444
- Experiments with Perilla.
- O'Mara, Joseph G. A photoperiodism accompanying autotetraploidy. Amer. Nat. 76(765): 386-396. July/Aug. 1942. Literature cited. 470 Am36
- Experiments with Secale cereale.
- Robertson, Rutherford N. Photosynthesis. Austral. Jour. Sci. 4(5): 150-151. Apr. 1942. 475 Au72
- Brief review of photosynthetic research.
- Sapozhnikov, D. I. Conditions of oxidation in the leaves of Elodea sensa. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(1): 79-80. July 10, 1941. References. 511 P444
- Sveshnikova, Irena N. Analysis of nucleus development and of changes of thymonucleic acid in ontogenesis. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(3): 216-218, illus. July 30, 1941. References. 511 P444
- Zakharov, B. S. Influence of daylength on susceptibility of sunflower to affection with broom-rape. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(6): 446-447. Aug. 30, 1941. References. 511 P444
- Zerling, V. V. Influence of major and minor nutrient elements on pollen germination in plants. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(6): 439-442. Aug. 30, 1941. References. 511 P444
- Zhdanova, L. P. Plants' content of minor growth substances as affected by vernalization and photoperiodism. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(8): 584-587. Sept. 20, 1941. References. 511 P444

Pathology

(For diseases of a particular plant see under crop subheads)

- Cooke, William B. Additions to the host index of fungi of Mount Shasta, California. II. Plant Dis. Rptr. 26(11): 253-259. June 15, 1942. 1.9 P69P
- Estévez-Bretón G. "Damping-off" una plaga de los vegetales muy difundida. Hacienda 37(7): 296, 298, illus. July 1942. 6 H11
- Idaho. Agricultural experiment station. Plant diseases. Idaho Agr. Expt. Sta. Ann. Rpt. (1941) 49(Bul. 244): 39-42. Moscow, Apr. 1942. 100 Id1
- Indiana. Agricultural experiment station. [Report of the] department of botany. Ind. Agr. Expt. Sta. Ann. Rpt. (1940/41) 54: 48-54, illus. Lafayette [1942] 100 In2P
- Marchionatto, Juan B. Las enfermedades de las plantas cultivadas de la Argentina y sus problemas. Chron. Bot. 7(4): 163-164. July 1942. 450 C46
- Massachusetts. Agricultural experiment station. [Report] department of botany. Mass. Agr. Expt. Sta. Ann. Rpt. 1940/41 (Bul. 388): 21-29. Amherst, Feb. 1942. Bibliographical foot notes. 100 M38H
- New South Wales. Dept. of agriculture - Biological branch. Plant diseases. (cont.) Agr. Gaz. N. S. Wales 53(5): 239-242, illus. May 1, 1942. 23 N472
- Bordeaux mixture, the best spray for fungous diseases. Diseases caused by the fungus Sclerotinia. Armillaria root rot of citrus. New plant diseases.

Parham, B. E. Botanical note. Plant protection. (Notes from the pathological laboratory III). Fiji Dept. Agr. Agr. Jour. 13(1): 27-28. Mar. 1942.
25 F47Ag

Soft rot of jak-fruit (*Rhizopus artocarpi*); white-rust of Cruciferae (*Albugo candida*); brown rot of citrus (*Phytophthora hibernalis*).

Rischkov, Vitoliy L., and Smirnova, V. A. Liquid crystals of the virus of the tobacco mosaic (*Nicotiana virus 1* Allard). Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 930-932, illus. June 30, 1941. References. 511 P444

Tisdale, William B. Use of fungicides in war-time. Citrus Indus. 23(7): 13, 18. July 1942. 80 C49

Tucker, C. M. Botany. Mo. Agr. Expt. Sta. Ann. Rpt. 1938/39 (Bul. 444): 29-32. Columbia, Apr. 1942. 100 M693

Notes on diseases.

Valleau, William D. Virus nomenclature and classification. Chron. Bot. 7(4): 152-154. July 1942. 450 C46

Weeds

Cupery, M. E., and Gordon, W. E. Sulfamic acid...an industrial review. Indus. and Engin. Chem. Indus. Ed. 34(7): 792-796, illus. July 1942. Literature cited. 381 J825

Includes herbicidal action.

Gordon, Bess. Poison ivy, the common enemy. Gard. Chron. Amer. 46(7): 206, 215, illus. July 1942. 80 G1632

Radel, L. H. Cape weed control. Tasmanian Jour. Agr. 13(2): 79-80. May 1, 1942. 23 T182T

Cryptostemma calendulaceum.

CROP PLANTS

(Includes Diseases)

Cereals

Åkerman, Åke, and Fröier, Kare. Die faktorenverteilung der lutescenssippe von *Avena sativa* auf die elternsorten. Hereditas 28(1/2): 171-176. Jan. 8, 1942. Literature cited. 442.8 H42

English summary.

Aljawdina, A. A. Zur frage über die grenze des perikarps und der samenschale in den karyopsen der getreide. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 953-955, illus. June 30, 1941. Literature cited. 511 P444

In wheat.

Avery, George S., jr., Berger, Julius, and Shalucha, Barbara. Auxin storage as related to endosperm type in maize. Bot. Gaz. 103(4): 806-808. June 24, 1942. Literature cited. 450 B652

Barrus, Mortier F. A disease of wheat newly recorded for this county [Seneca, N. Y.]. Yellow-spot disease. Plant Dis. Rptr. 26(11): 246. June 15, 1942. 1.9 P69P

Helminthosporium tritici-vulgaris.

Chin, Tzu-Chung. The cytology of some wild species of *Hordeum*. Ann. Bot. [London] (n.s.) 5(19): 535-545, illus. July 1941. Literature cited. 450 An7

- Cohen, Cyril. Drought resistance in young cereals. *So. African Jour. Sci.* 38: 172-180. Jan. 1942. References. 515 So84
Experiments with rye.
- Erwin, Arthur T. Anent the origin of sweet corn, *Zea mays* L. var. *rugosa*, Bonaf. *Iowa State Col. Jour. Sci.* 16(4): 481-485. July 1942. 470 Io9
- Johnson, Aaron G. *Helminthosporium tritici-vulgaris* on wheat in Maryland. *Plant Dis. Rptr.* 26(11): 246-247. June 15, 1942. 1.9 P69P
- Levan, Albert. Studies on the meiotic mechanism of haploid rye. *Hereditas* 28(1/2): 177-211, illus. Jan. 8, 1942. Literature cited. 442.8 H42
- Meredith, W. O. S., Rowland, H., and Sallans, H. R. Malting quality of Canadian barleys. III. Twenty-eight varieties, 1938, 1939, and 1940 trials. *Sci. Agr.* 22(10): 584-593. June 1942. References. 7 Sci2
- Miroshnichenko, K. G. Carbohydrate metabolism in wheats under conditions of insufficient soil moisture. *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 32(1): 81-84. July 10, 1941. References. 511 P444
- Moulton, James E. Extraction of auxin from maize, from smut tumors of maize, and from *Ustilago zeae*. *Bot. Gaz.* 103(4): 725-739. June 24, 1942. Literature cited. 450 B652
- Müntzing, Arne. Frequency of induced chlorophyll mutations in diploid and tetraploid barley. *Hereditas* 28(1/2): 217-221. Jan. 8, 1942. Literature cited. 442.8 H42
- Putnam, L. G. A study of the inheritance of solid stems in some tetraploid wheats. *Sci. Agr.* 22(10): 594-607. June 1942. References. 7 Sci2
- Robertson, D. W., and others. Rate and date of seeding winter wheat in eastern Colorado. *Colo. Agr. Expt. Sta. Bul.* 472, 9 pp., illus. Fort Collins, June 1942. 100 C71S
Joseph F. Brandon, Hurley Fellows, O. H. Coleman, and J. J. Curtis joint authors.
- Saltykovsky, Mikhail I., and Saprygina, E. S. Winteriness in the second generation of wheat hybrids. *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 31(6): 628-631. May 30, 1941. References. 511 P444
- Sreenivasan, A. Quality of rice. *Empire Jour. Expt. Agr.* 9(35): 184-194. July 1941. 10 Em7
- Zhebrak, A. R. Colchicine induced amphidiploids of *Triticum turgidum* x *Triticum timopheevi*. *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 31(6): 617-619, illus. May 30, 1941. References. 511 P444

Cotton and Fiber Plants

- Abaeva, S. S. Influence of high temperatures on viability of pollen in cotton (in relation to premature fruit dropping). *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 32(6): 443-445, illus. Aug. 30, 1941. References. 511 P444
- Crowther, Frank. Studies in growth analysis of the cotton plant under irrigation in the Sudan. II. Seasonal variation in development and yield. *Ann. Bot. [London] (n.s.)* 5(19): 509-533. July 1941. Literature cited. 450 An7
- Dunlavy, Henry E., Parrott, I. M., and Self, F. W. 1941 report, cotton variety tests in Oklahoma. *Okla. Agr. Expt. Sta. Misc. Pub. MP-4*, 28 pp., processed. Stillwater, 1942. 100 Ok4
- Empire cotton growing corporations. Progress reports from experiment stations. Season 1940-1941. Programmes of experiments, season 1941-1942. 216 pp. London, 1942. 72.9 G79Rs

- Hancock, Newman I. Factors in the breeding of cotton for increasing oil and nitrogen content. Tenn. Agr. Expt. Sta. Cir. 79, 7 pp. Knoxville, Apr. 1942. 100 T25S
- Hock, Charles W. Microscopic structure of flax and related bast fibers. Amer. Dyestuff Rptr. 31(14): 334-342, illus. July 6, 1942. References. 306.8 Am3
- Levan, Albert. The response of some flax strains to tetraploidy. Hereditas 28(1/2): 246-248. Jan. 8, 1942. Literature cited. 442.8 H42
- Novikov, V. A. Causes underlying bud and boll shedding in cotton and means to control it. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(2): 148-151. July 20, 1941. References. 511 P444
- Novikov, V. A. Withdrawal of water from the fruit by the leaves of cotton. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(4): 288-290. Aug. 10, 1941. References. 511 P444
- Skinner, J. J., and Batten, T. E. Effect of neutralizing fertilizer with dolomitic limestone and the response to potash fertilization of cotton on Onslow fine sandy loam. Com. Fert. Year Book 1942: 56-60. Literature cited. 57.8 C73Y
- Staten, Glen. Cottonseed treatments in New Mexico. N. Mex. Agr. Expt. Sta. Bul. 290, 32 pp., illus. State College, Apr. 1942. 100 N465
- Wallace, R. W. Cotton on sandy soils needs plenty of potash. Better Crops with Plant Food 26(6): 10-12, 35-36, illus. June/July 1942. 6 B46

Drug Plants

- Bell, William W. The harvesting, curing and marketing of American medicinal plants. Chemurg. Digest 1(12): 91-93, illus. June 30, 1942. 381 N213Na
- Khlebnikova, N. A. Growth and development of white poppy on varying day-length. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 32(7): 503-504. Sept. 10, 1941. References. 511 P444

Fruits and Nuts

- Bartholomew, Elbert T., Sinclair, Walton B., and Lindgren, D. L. Measurements on hydrocyanic acid absorbed by citrus tissues during fumigation. Hilgardia 14(7): 373-409. May 1942. Literature cited. 100 C12H
- Injury by night fumigation seems to depend on condition of tissue, while day injury appears to result from effects of sunlight.
- Bertelli, Julio C. Generalidades sobre tratamientos en los arboles frutales. Uruguay. Min. de Ganad. y Agr. Dir. de Agron. [Cartillas] 59, 15 pp., illus. 1942. 9.9 Ur84
- Bodine, Eddie W., Newton, J. H., and Kreutzer, William A. Four new virus diseases of stone fruits found in peach mosaic study in Colorado. Colo. Expt. Sta. Colo. Farm Bul. 4(2): 6-10, illus. Apr./June 1942. 100 C71S
- Rasp-leaf disease of cherry, ring-spot disease of apricot, x-disease of peach and golden-net virus on apricots, peaches and plums.
- Cross, Frank B., and Webster, James E. Substitutes for Concord grapes in Oklahoma. Okla. Agr. Expt. Sta. Cir. C-103, [4] pp. Stillwater, May 1942. 100 Ok4
- Filipello, F. California wine grape varieties. Wines and Vines 23(6): 14-19, illus. June 1942. 95.8 C122

- Mack, G. L., and Hamilton, James M. Stickers and spreaders in orchard sprays. N. Y. State Agr. Expt. Sta. Farm Res. 8(3): 2, illus. July 1, 1942. 100 N48M
- Makareyskaja, E. A., and Iluridze-Molchan, K. M. Catalase in vine shoots. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(6): 614-616. May 30, 1941. References. 511 P444
Experiments with *Vitis vinifera*.
- Murneek, A. E., and Hibbard, A. D. Substitutes for nitrogen fertilizers in orcharding. Mo. Agr. Expt. Sta. Cir. 236, 7 pp. Columbia, June 1942. 100 M693
- Peyer, E. Die erfahrungen mit schwach konzentrierter Bordeauxbrühe bei der mehltaubekämpfung in den reben der deutschen Schweiz im sommer 1941. Schweiz. Ztschr. f. Obst- Weinbau 51(8): 173-178. Apr. 11, 1942. 80 Sch9
- Philosophova, T. P. Bridging species method in hybridization of the garden strawberry. *F. grandiflora*, with other *Fragaria* species. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 924-926. June 30, 1941. References. 511 P444
F. elatior and *F. vesca* used in crossing.
- Research work on ripe-spot of apples. Results of recent experiments by Plant diseases division. Orchardist New Zeal. 15(6): 2. June 1, 1942. 80 Orl8
- Summary of address by G. H. Cunningham before New Zealand fruitgrowers' federation. Due to *Neofabraea malicorticis*.
- Schrader, A. L. Attacking the soil fertility problems in fruit growing. Com. Fert. Year Book 1942: 29-35, 42, illus. Literature cited. 57.8 C73Y
- Smith, F. B. The importance of organic matter in a soil management program for citrus. Citrus Indus. 23(7): 6-7, 12. July 1942. 80 C49

Grasses and Forage Plants

- Aguilar G., José I. Ensayos en el estudio de plantas forrajeras en Guatemala. 207 pp., illus. Guatemala [Tipografía nacional] 1939. 60 Ag9
- Akerberg, Erik. Cytogenetic studies in *Poa pratensis* and its hybrid with *Poa alpina*. Hereditas 28(1/2): 1-126, illus. Jan. 8, 1942. Literature cited. 442.8 H42
- Brett, P. G. C. The assimilation and respiration rates of some Natal grasses. So. African Jour. Sci. 38: 158-171, illus. Jan. 1942. References. 515 So84
- Bryce, James. The economic exploitation of rice grass. Empire Jour. Expt. Agr. 9(35): 167-170, pl. 8-9. July 1941. 10 Em7
Spartina townsendii.
- Dunklee, D. E., and Midgley, A. R. Grassland maintenance in Vermont. I. A preliminary study. Vt. Agr. Expt. Sta. Bul. 484, 14 pp., illus. Burlington, Apr. 1942. 100 V59
- Fleming, Charles E., Shipley, M. A., and Miller, M. R. Bronco grass (*Bromus tectorum*) on Nevada ranges. Nev. Agr. Expt. Sta. Bul. 159, 21 pp., illus. Reno, Apr. 1942. 100 N41S
- Gukova, M. M., and Butkevich, V. S. Influence of aeration and soil temperature on the development of inoculated and non-inoculated soya plants. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 937-940. June 30, 1941. 511 P444

- Gukova, M. M., and Butkevich, V. S. Rate of photosynthesis in leguminous plants supplied with free or bound nitrogen. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 933-936. June 30, 1941. References. 511 P444
- Experiments with soybean, var. Krushul.
- Jensen, H. L. Nitrogen fixation in leguminous plants. I. General characters of root-nodule bacteria isolated from species of *Medicago* and *Trifolium* in Australia. Linn. Soc. N. S. Wales Proc. 67(1/2): 98-108, illus. May 15, 1942. References. 514 Sy2
- Kasparova, S. A., and Proskurnikova, T. A. Ueber den einfluss der ammoniak- und nitrat-ernährung auf den kohlehydratstoffwechsel des rotklees in der Arktis. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.) 31(9): 941-944. June 30, 1941. References. 511 P444
- Levan, Albert. Plant breeding by induction of polyploidy and some results in clover. Hereditas 28(1/2): 245-246. Jan. 8, 1942. Literature cited. 442.8 H42
- Neel, Lake R. Colored folk find valuable clover; hardier strain of button clover makes better hay; provides later pasturage; reseeds itself. South. Seedsman 5(7): 7, 31, illus. July 1942. 61.8 So8
- Medicago orbicularis*.
- Nilsson-Leissner, Gunnar. A case of increased vitality in sib-pollinated later generations of self-fertilised *Dactylis glomerata* strains. Hereditas 28(1/2): 222-224. Jan. 8, 1942. 442.8 H42
- Ostergren, G. Chromosome numbers in *Anthoxanthum*. Hereditas 28(1/2): 242-243. Jan. 8, 1942. Literature cited. 442.8 H42
- Rensburg, H. J. van. A comparison of quadrad results and phenological data in a series of highveld grassland grazing experiments subjected to different treatments over a period of six years. So. African Jour. Sci. 38(1941): 186-197. Jan. 1942. References. 515 So84
- Sampson, Kathleen, and Western, J. H. Diseases of British grasses and herbage legumes. 85 pp., illus., 8 pl. Cambridge, [England] University press, 1941. References. 464.02 Sa4
- Spangenberg, Gustavo E., and others. La producción y calidad de las pasturas naturales en relación a tierras y clima. [Montevideo] Univ. Facult. de Agron. Rev. 25: 9-77, illus., maps. Aug. 1941. 102.6 M76R
- J. S. Nores, L. A. Montedónico, and C. A. Fynn joint authors.
- Tennent, R. B. Field investigational work. New Zeal. Jour. Agr. 64(5): 311-316, illus. May 15, 1942. 23 N48J
- Thomas, Arthur S. The uses of *Paspalum notatum*. East African Agr. Jour. 7(4): 236-238. Apr. 1942. References. 24 Ea74

Oil Plants

- Sell, Harold M., and others. Effect of chemical treatments in prolonging dormancy of tung buds. Bot. Gaz. 103(4): 788-793, illus. June 24, 1942. Literature cited. 450 B652
- Walter Reuther, E. G. Fisher, and F. S. Lagasse joint authors.
- Walker, Gilbert. Notes on *Leptospermum citratum*. East African Agr. Jour. 7(4): 202-203. Apr. 1942. 24 Ea74
- Woodroof, Naomi C. Increased yields of Spanish peanuts obtained by dusting. Ga. Expt. Sta. Cir. 136, [4] pp., illus. Experiment, Apr. 1942. 100 G29S

Ornamentals

- Adams, Helen H. *Cattleya warscewiczii*, a history. Amer. Orchid Soc. Bul. 11(2): 43-46, pl. (front.). July 1, 1942. 80 Am329
Commonly and incorrectly called *C. gigas*.
- Baker, Ross W. *Epidendrum mariae*, an outstanding and little-known species. Amer. Orchid Soc. Bul. 11(2): 56-57, illus. July 1, 1942. 80 Am329
- Böhner, Philotheus. On the thermonasty of crocus flowers. St. Bonaventure Col. Sci. Studies 10(4): 20-23, illus. June 1942. Bibliography. 470 Sci29
- Christman, William F. Why not grow more peonies? Amer. Peony Soc. Bul. 85: 11-20. Dec. 1941. 81 Am38B
- Cortési, Rodolphe. Recherches sur le laurier-rose. Soc. Bot. de Genève Bul. II, 32: 1-102, iv pl. 1941. Bibliography. 451 G283B
- Craig, William N. Lily specialist summarizes situation regarding numerous varieties. Florists' Rev. 90(2328): 17-18. July 9, 1942. 80 W41
- Creager, Donald B. Control of peony measles by ground spray. Amer. Peony Soc. Bul. 85: 3-5, illus. Dec. 1941. 81 Am38B
- Curtis, W. C. Propagation of wild flowers. II. Wild Flower 19(2): 34-40. Apr. 1942. 451 W642
- Dillon, Gordon W. *Catasetum russellianum*. Amer. Orchid Soc. Bul. 11(2): 62-64, illus. July 1, 1942. 80 Am329
- Gustafsson, Åke. Cross-experiments in the genus *Rosa*. Hereditas 28(1/2): 235-238. Jan. 8, 1942. Literature cited. 442.8 H42
- Killand, Thomas K. Hedge plants for the northern Great Plains. U. S. Dept. Agr. Farmers' Bul. 1898, 13 pp., illus. Washington, D. C., June 1942. 1 Ag84F
- Kirkbride, Mrs. Franklin B. *Galax* in Connecticut; "*Galax aphylla*" -- evergreen, perennial herb. Gard. Club Amer. Bul. 8(1): 43-44. July 1942. 90.32 G16
Planted in garden, New Canaan, Connecticut.
- Milbrath, David G. Flowers may endanger commercial crops. Calif. Cult. 89(13): 331. June 27, 1942. 6 C12
Hosts to various crop virus diseases.
- Neff, Marshall S. Effects of storage conditions on cut roses. Bot. Gaz. 103(4): 794-805. June 24, 1942. Literature cited. 450 B652
- Nelson, Ray. Control of *Fusarium* yellows of gladiolus. Gladiolus [New England Gladiolus Soc.] Sup. 6(2): 4-8. July 1942. 96.43 N44
- Svihla, Ruth D. Pods and seeds of various orchids. Amer. Orchid Soc. Bul. 11(2): 51-53. July 1, 1942. 80 Am329
- Virus diseases prevalent in roses in many greenhouses. Florists' Rev. 90(2327): 27. July 2, 1942. 80 W41
Summary of report made to Society of American florists.

Potato

- Bartholdi, W. L. Influence of flowering and fruiting upon vegetative growth and tuber yield in the potato. Minn. Agr. Expt. Sta. Tech. Bul. 150, 30 pp., illus. University Farm, St. Paul, Jan. 27, 1942. Literature cited. 100 M66
- Bushnell, John. The age of maximum reproduction vigor in Irish Cobbler seed potatoes. Amer. Potato Jour. 19(6): 124-129. June 1942. Literature cited. 75.8 P842

- Bushnell, John. Effect of number of plants per hill on the yield of potatoes in Ohio. *Amer. Potato Jour.* 19(6): 119-123, illus. June 1942. Literature cited. 75.8 P842
- Fedorova, M. J. Isolierung von phytophthoraresistenten formen der kartoffel durch beurteilung der nachkommenschaft. *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 32(4): 282-284. Aug. 10, 1941. Literature cited. 511 P444
- Kasparova, S. A., and Glazunov, I. V. Carbohydrate complex in the potato grown in Arctic regions. *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 31(6): 625-627. May 30, 1941. References. 511 P444
- Kasparova, S. A., and Glazunov, I. V. Variation of biochemical processes in resting potato tubers grown in the Arctic. *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 31(7): 679-682. June 10, 1941. References. 511 P444
- Nattrass, Roland M. Potato blight. *East African Agr. Jour.* 7(4): 196-201, illus. Apr. 1942. 24 Ea74
- Russell, E. J., and Garner, H. V. The Rothamsted experiments on the manuring of potatoes. Part I. Effects of nitrogenous, phosphatic and potassic manuring. *Empire Jour. Expt. Agr.* 9(35): 195-215. July 1941. 10 Em7
- Schroeder, Raymond A., and Albrecht, William A. Plant nutrition and the hydrogen ion. II. Potato scab. *Soil Sci.* 53(6): 481-488, illus. June 1942. References. 56.8 So3
- Smith, Ora. Fertilizer and nutrition studies with the potato in 1941. *Amer. Potato Jour.* 19(6): 108-118. June 1942. Literature cited. 75.8 P842

Rubber Plants

- Brandes, Elmer W. Rubber from the Russian dandelion. *U. S. Off. Foreign Agr. Relat. Agr. Amer.* 2(7): 127-131, illus. July 1942. 1 F752A
Taraxacum kok-saghyz.
- Greenway, Percy J. Wild rubber in East Africa. *East African Agr. Jour.* 7(4): 224-227. Apr. 1942. References. 24 Ea74
Clitandra orientalis, *Funtumia elastica*, *Landolphia* spp., *Mascarenhasia elastica*, *Holarrhena microterantha*.
- Rands, Robert D. Hevea rubber culture in Latin America. Problems and procedures. II. *India Rubber World* 106(4): 350-356, illus. July 1942. Literature cited. 305.8 In2
- Rudenskaya, B. J. Structural changes in the root of kok-saghyz in relation to breeding for larger size. *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 31(9): 956-957, illus. June 30, 1941. 511 P444

Sugar Plants

- Arceneaux, George, and Hebert, Leo P. Flowering of sugarcane in Louisiana. *Sugar Jour.* 5(1): 9-12. June 1942. 65.8 Su391
- Artschwager, Ernst. A comparative analysis of the vegetative characteristics of some variants of *Saccharum spontaneum*. *U. S. Dept. Agr. Tech. Bul.* 811, 55 pp., illus. Washington, D. C., May 1942. Literature cited. 1 Ag34Te

Tobacco

Foster, Harold H., Garcia Fortuño, M., and Irizarry Rubio, G. Notes on diseases, decays, and disorders of tobacco in Puerto Rico during the 1941-42 season. Plant Dis. Rptr. 26(11): 247-253, illus. (map). June 15, 1942. Literature cited. 1.9 P69P

Trees

Collingwood, George H. Chestnut oak, *Quercus montana*, Wildenow. Amer. Forests 48(7): 320-321, illus. (incl. map). July 1942. 99.8 F762
Cork oak. Chemurg. Digest 1(4): 28-29, illus. (map). Feb. 28, 1942.
Bibliography. 381 N213Na
Part of this material was secured from report of C. H. Muller.

Friesner, Ray C. Dendrometer studies of five species of broad-leaf trees in Indiana. Butler Univ. Bot. Studies 5(9/17): 160-172. Apr. 1942.
Literature cited. 451 B97

Friesner, Ray C. Vertical growth in four species of pines in Indiana. Butler Univ. Bot. Studies 5(9/17): 145-159. Apr. 1942. Literature cited. 451 B97

Fritz, Clara W., and Atwell, Ernest A. Decay in red-stained jack pine ties under service conditions. Canada Forest Serv. Cir. 58, 19 pp., 7 pl. 1941. 99.9 C16C
Due to *Fomes pini*, secondary cause *Lenzites saepiaria*.

Harmon, Matthew H. A study of some factors affecting asymmetrical growth of trees. Butler Univ. Bot. Studies 5(9/17): 134-144. Apr. 1942.
Literature cited. 451 B97

Johnsson, Helge. Die chromosomenzahl von *Carpinus betulus* L. Hereditas 28(1/2): 228-230. Jan. 8, 1942. Literature cited. 442.8 H46

Kalm, Pehr. Pehr Kalm's observations on black walnut and butternut trees. Translated by E. L. Larsen. Agr. Hist. 16(3): 149-157. July 1942. 30.98 Ag8
Translation of his Norr-amerianska svarta valnötträdets...and his Om hvita valnöt trädets...first published in K. Svenska Vetensk. Acad. Handl. v. 28 and v. 30. 1767 and 1770.

Littlefield, Edward W. *Pinus thunbergii*, a successful exotic on the North Atlantic coast. Jour. Forestry 40(7): 566-573, illus. July 1942.
Literature cited. 99.8 F768

Matthews, Oliver F. The Johnson fir. Jour. Forestry 40(7): 579-581, illus. July 1942. 99.8 F768
Abies grandis f. *johnsoni*, on the farm of Mr. J. A. Johnson, 4 miles northwest of Ranier, Oregon.

May, Curtis. A note on slime-flux in American elm. Arborist's News 7(7): 52-53. July 1942. 99.8 Ar14

New York. Dept. of agriculture and markets. Dutch elm disease control. N. Y. Dept. Agr. and Markets Cir. 623 (Work Bur. Plant Indus. 1940): 187-189, illus. (map). 1942. 2 N482C

Palmer, Ernest J. The red oak complex in the United States. Amer. Midland Nat. 27(3): 732-740, illus. (map). May 1942. References. 410 M58

Pirone, Pascal P. Your shade trees. Amer. Forests 48(7): 322-323, illus. July 1942. 99.8 F762
Smoke, soot and gas damage.

Starr, George H. The control of chlorosis in cottonwood trees and other plants. Wyo. Agr. Expt. Sta. Bul. 252, 16 pp., illus. Laramie, May 1942. Bibliography. 100 W99

Ferric phosphate injection most effective.

Stockwell, Palmer. Pinus: embryo size compared with growth rate. Amer. Nat. 76(765): 431-432. July/Aug. 1942. Literature cited. 470 Am36

Experiments with *P. jeffreyi* and *P. lambertiana*.

Tehon, Leo R. Diseases of trees; gleanings from the latest reports of scientific research. Amer. Nurseryman 76(1): 18. July 1, 1942.

80 Am371

Diamond canker of the French prune.

York, Harlan H., and Littlefield, Edward W. The naturalization of Scotch pine, northeastern Oneida county, N. Y. Jour. Forestry 40(7): 552-559, illus. July 1942. Literature cited. 99.8 F768

Tropical Plants

Alvarado, Juan A. El agotamiento del humus en el terreno y su influencia sobre ciertas clases de podredumbres de la raíz; que aparentemente son de origen patógeno y que realmente no son más que casos de inanición y muerte por hambre debido a una alimentación deficiente de la planta. III. Café de El Salvador 12(137): 382-301, illus. May 1942. 68.28 C112

Bauer, A. Contribución al problema del abonado del café. Café de El Salvador 12(137): 302-308. May 1942. 68.28 C112

Hofmeyr, J. D. J., and Elden, H. van. Tetraploidy in *Carica papaya* L. induced by colchicine. So. African Jour. Sci. 38: 181-185, illus. Jan. 1942. Literature cited. 515 So84

Leonard, E. R., and Wardlaw, Claude W. Studies in tropical fruits. XII. The respiration of bananas during storage at 53° F. and ripening at controlled temperatures. Ann. Bot. [London] (n.s.) 5(19): 379-423. diags. July 1941. Literature cited. 450 An7

Mrak, Emil M., Phaff, H. J., and Vaughn, R. H. Yeasts occurring on dates. Jour. Bact. 43(6): 689-700. June 1942. References. 448.3 J82

Most of organisms isolated were cultures of *Zygosaccharomyces*, *Hanseniaspora* and *Candida*. A new species of *Torulopsis* (*T. dactylifera*) is described.

Rayner, R. W. A progress report of investigations on flowering in coffee. Coffee Bd. Kenya Monthly Bul. 7(76): 42-44, illus. Apr. 1942. 68.29 C652

Simons, Julio S. La guanábana y su cultivo. Puerto Rico Agr. Expt. Sta. Rio Pedras Agriculture Expt. 2(3): 7-8. May/June 1942. 100 P83Ae
Annona muricata.

Simons, Julio S., and Arroyo, Rafael. La pomarrosa malaya en la producción de vino. Puerto Rico Agr. Expt. Sta. Rio Pedras Agricultura Expt. 2(3): 5-7. May/June 1942. 100 P83Ae

Janbosa malaccensis.

Uphof, Johannes C. El cultivo del moscadero en las Indias neerlandesas. Hacienda 37(7): 290-291, illus. July 1942. 6 H11

Myristica fragrans.

Vegetables

Alexander, Leonard J., Lincoln, Ralph E., and Wright, Vedder. A survey of the genus *Lycopersicon* for resistance to the important tomato diseases occurring in Ohio and Indiana. Plant Dis. Rptr. Sup. 136, 85 pp.,

- Barker, H. A., and Broyer, Theodore C. Notes on the influence of micro-organisms on growth of squash plants in water culture with particular reference to manganese nutrition. *Soil Sci.* 53(6): 467-477. June 1942. References. 56.8 So3
- Binkley, Almond M., and Fauber, Herman. Sweet Spanish onion bulb development most rapid in late August, test shows. *Colo. Agr. Expt. Sta. Colo. Farm Bul.* 4(2): 11-13. Apr./June 1942. 100 671S
- Cunningham, Howe S. Vegetable disease problems on Long Island. N. Y. State Agr. Expt. Sta. Farm Res. 8(3): 14, 15, illus. July 1, 1942. 100 N48A
- Black rot most serious disease of cauliflower.
- Daines, Robert H. Scurf, black rot, and stem rot of sweet potatoes. N. J. Agr. Expt. Sta. Cir. 437, 8 pp., illus. (on cover). New Brunswick, May 1942. 100 N46S
- Hatcher, Edwin S. J. Studies in the inheritance of physiological characters. VI. Hybrid vigour in the tomato. Pt. IV. The effect of flower removal on the manifestation of hybrid vigour. *Ann. Bot. [London]* (n.s.) 5(19): 501-508. July 1941. Literature cited. 450 An7
- Hildebrand, E. M. A micrurgical study of crown gall infection in tomato. *Jour. Agr. Res.* 65(1): 45-59, illus. July 1, 1942. Literature cited. 1 Ag84J
- Jones, T. H., Goodwin-Wilson, R., and Truscott, J. H. L. The value of soil analyses as an aid in truck crop production in Ontario. (Progress report). Ontario Dept. Agr. Bul. 421, 17 pp. Apr. 1942. 101 On8B
- Lamprecht, Herbert. Genstudien an *Pisum sativum*. V. Multiple allele für punktierung der testa: Fs_{ex} - Fs - fs . *Hereditas* 28(1/2): 157-164, illus. Jan. 8, 1942. 442.8 H42
- English summary.
- Lamprecht, Herbert. Die koppelungsgruppe Gp-Cp-Fs-Ast von *Pisum*. *Hereditas* 28(1/2): 143-156. Jan. 8, 1942. Literature cited. 442.8 H42
- English summary.
- Lutikova, O. T. Dynamik der fermente in reifenden erbsenkörnern. *Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.)* 31(7): 683-685. June 10, 1941. Literature cited. 511 P444
- Lyon, Channing B., Beeson, Kenneth C., and Barrentine, M. Macro-element nutrition of the tomato plant as correlated with fruitfulness and occurrence of blossom-end rot. *Bot. Gaz.* 103(4): 651-667. June 24, 1942. Literature cited. 450 B652
- Occurrence of rot definitely associated with calcium nutrition.
- McClure, T. T., and Robbins, W. R. Resistance of cucumber seedlings to damping-off as related to age, season of year, and level of nitrogen nutrition. *Bot. Gaz.* 103(4): 684-697, illus. June 24, 1942. Literature cited. 450 B652
- Mahoney, Charles H. Is defoliation of the cantaloupe largely due to unbalanced nutrition? *Com. Fert.* 65(1): 13-14, 16, 18, 20-22, illus. July 1942. Literature cited. 57.8 C73
- Peacock, Neal D., Meyer, Arthur, and Strand, Alfred B. A strain of Nancy Hall sweetpotato selected for color of flesh. *Tenn. Agr. Expt. Sta. Cir.* 80, [4] pp., illus. Knoxville, Apr. 1942. 100 T25S
- Rosen, G. von. Linkage studies in *Pisum sativum* x *P. abyssinicum*. *Hereditas* 28(1/2): 136-142. Jan. 8, 1942. Literature cited. 442.8 H42
- A preliminary report.

- Rosen, G. von. Eine physiologische wirkung der blütengrösse bei Pisum. Hereditas 28(1/2): 240-241. Jan. 8, 1942. 442.8 H42
- Tiedjens, V. A., and Schermerhorn, L. G. Growing vegetables with fertilizer in water. N. J. Agr. Expt. Sta. Bul. 694, 20 pp., illus. New Brunswick, June 1942. 100 N46S
- Yatzynina, Klavdiia N. Breeding for tomato variety resistant to bacterial cancer *Aplanobacter michiganense* E. F. Smith. Akad. Nauk (Acad. Sci. URSS) Compt. Rend. (Dok.). 32(5): 372-373. Aug. 20, 1941. 511 P444

SOILS AND FERTILIZERS

- Ahlström, Bror. Gödlingsförsök vid Sörbyn. Fastliggande försök med stigande mängder fosfat, kali och kväve till slatterväll på myrjord (Düngungsversuche bei Sörbyn, Versuche mit steigenden mengen phosphat, kali und stickstoff in wiesland auf niedermoorortorf). Svenska Valloch Mosskulturför. Meddel. n:r 7, pp. 309-331. 1941. Literature cited. 11 Sv27M
- German summary.
- Perkins, W. R., Grizzard, A. L., and Hutcheson, T. B. Rotation and fertilizer experiments in southwest Virginia. Va. Agr. Expt. Sta. Bul. 339, 15 pp. Blacksburg, May 1942. 100 V81S
- Powers, W. L. Fertilizing food crops for victory. Com. Fert. 65(1): 23-27, illus. July 1942. Literature cited. 57.8 C73
- Roberts, R. C., Zalduendo, J. A., and others. Soil survey of Puerto Rico. U. S. Dept. Agr. Bur. Plant Indus. Soil Survey Ser. 1936, no. 8, 503 pp., illus., maps. Washington, D. C., Jan. 1942. Literature cited. 1 So32F
- In cooperation with Puerto Rico Agricultural Experiment Station.
- Sayre, Charles B. An easier, more effective method of applying fertilizers. N. Y. State Agr. Expt. Sta. Farm Res. 8(3): 8-10, illus. July 1, 1942. 100 N48A
- Smith, Howard M., Marshall, R. M., and Mowery, L. C. Soil survey of Maverick county, Texas. U. S. Dept. Agr. Bur. Plant Indus. Soil Survey Ser. 1936, no. 10, 61 pp., map. Washington, D. C., Jan. 1942. 1 So32F
- In cooperation with Texas Agricultural Experiment Station.
- Stanier, R. Y. Are there obligate cellulose-decomposing bacteria? Soil Sci. 53(6): 479-480. June 1942. 56.8 So3
- Volk, N. J. The importance of fertilizer in meeting the war production goals of food and feed in the Southeast. Com. Fert. Year Book 1942: 23-28, illus. 57.8 C73Y

AUTHOR INDEX

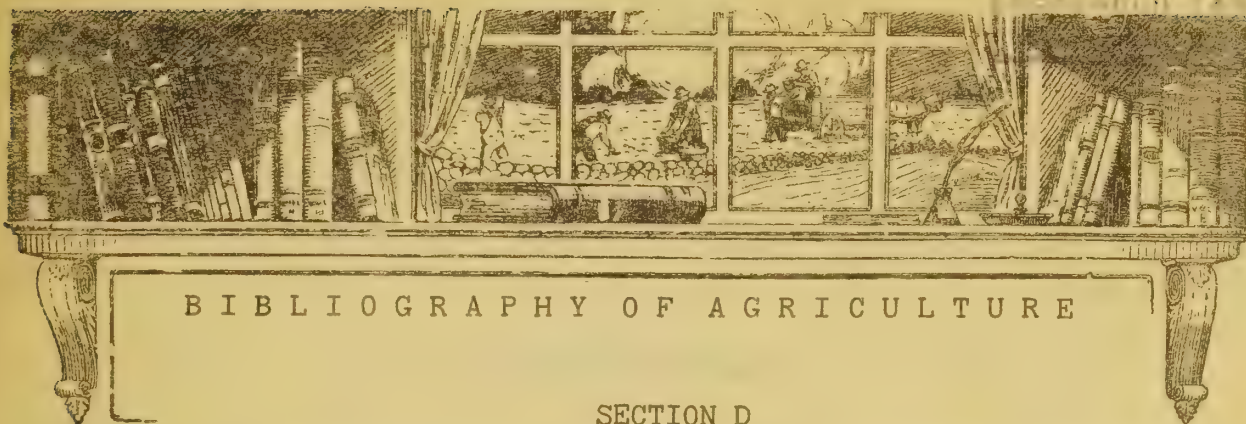
	Page		Page
Akerberg, Erik.....	D-15	Bryce, James.....	D-15
Akerman, Ake.....	D-12	Bushnell, John.....	D-17, D-18
Abaeva, S. S.....	D-13	Butkevich, V. S.....	D-15, D-16
Adams, H. H.....	D-17		
Aguilar G., J. I.....	D-15	Cajlachjan, M. C.....	D-10
Ahlner, S.....	D-5	Camp, W. H.....	D-3
Ahlström, Bror.....	D-22	Chace, W. G.....	D-5
Albrecht, W. A.....	D-18	Charter, H. E.....	D-10
Alexander, L. J.....	D-20	Chin, Tzu-Chung.....	D-12
Aljawdina, A. A.....	D-12	Christman, W. F.....	D-17
Allard, H. A.....	D-9	Cohen, Cyril.....	D-13
Alvarado, J. A.....	D-20	Coleman, O. H.....	D-13
Anderson, T. F.....	D-8	Collingwood, G. H.....	D-19
Arceneaux, George.....	D-18	Conn, J. E.....	D-8
Arroyo, Rafael.....	D-20	Constance, Lincoln.....	D-3
Artschwager, Ernst.....	D-18	Cooke, W. B.....	D-5, D-11
Artzikhovskaya, E. V.....	D-8	Cortési, Rodolphe.....	D-17
Atwell, E. A.....	D-19	Craig, W. N.....	D-17
Avery, G. S., jr.....	D-12	Creager, D. B.....	D-17
		Croasdale, H. T.....	D-6
Babcock, E. B.....	D-9	Croizat, Leon.....	D-10
Baker, R. W.....	D-17	Cross, F. B.....	D-14
Barker, H. A.....	D-21	Crowther, Frank.....	D-13
Barrentine, M.....	D-21	Cunningham, G. H.....	D-15
Barrus, M. F.....	D-12	Cunningham, H. S.....	D-21
Bartholdi, W. L.....	D-17	Cupery, M. E.....	D-12
Bartholomew, E. T.....	D-14	Curtis, J. J.....	D-13
Batten, T. E.....	D-14	Curtis, W. C.....	D-17
Bauer, A.....	D-20		
Bausor, S. C.....	D-9	Daily, W. A.....	D-6
Beauverd, Gustave.....	D-10	Daines, R. H.....	D-21
Beeson, K. C.....	D-21	Daubenmire, R. F.....	D-10
Bell, W. W.....	D-14	Degelius, Gunnar.....	D-6
Berger, Julius.....	D-12	Dillon, G. W.....	D-17
Bertelli, J. C.....	D-14	Doncaster, E. D.....	D-6
Binkley, A. M.....	D-21	Dunklee, D. E.....	D-15
Blake, S. F.....	D-4	Dunlavy, H. E.....	D-13
Blake, S. T.....	D-6	Dyer, R. A.....	D-6
Bock, T. M.....	D-4		
Bodine, E. W.....	D-14	Elden, H. van.....	D-20
Böhner, Philotheus.....	D-5, D-6, D-17	Erlandsson, Stellan.....	D-9
Bonnier, Gert.....	D-9	Erwin, A. T.....	D-13
Borozdina, A.....	D-9	Estévez-Bretón G.....	D-11
Brandes, E. W.....	D-18	Evenari, Michael.....	D-10
Brandon, J. F.....	D-13	Ewan, J. A.....	D-3
Brett, P. G. C.....	D-15		
Brown, R. W.....	D-7	Fagerlind, Folke.....	D-10
Browne, I. M. P.....	D-10	Fauber, Herman.....	D-21
Broyer, T. C.....	D-21	Fedorova, N. J.....	D-18
Brunson, M. E.....	D-6	Fellows, Hurley.....	D-13

	Page		Page
Filipello, F.....	D-14	Jenkins, A. E.....	D-5
Firbas, Franz.....	D-3	Jenkins, J. A.....	D-9
Fisher, E. G.....	D-16	Jensen, H. L.....	D-16
Fisher, P. J.....	D-8	Johnson, A. G.....	D-13
Fitting, Hans.....	D-3	Johnsson, Helge.....	D-19
Fleming, C. E.....	D-15	Jones, T. H.....	D-21
Fosberg, F. R.....	D-3		
Foster, H. H.....	D-19	Kallós-Deffner, Liselotte.....	D-5
Friesner, R. C.....	D-7, D-19	Kalm, Pehr.....	D-19
Fritz, C. W.....	D-19	Karling, J. S.....	D-5
Fröier, Kare.....	D-9, D-12	Kasparova, S. A.....	D-16, D-18
Fynn, C. A.....	D-16	Kavanagh, Virgene.....	D-5
		Keller, C. O.....	D-7
Garcia Fortuño, M.....	D-19	Kerkis, I. I.....	D-8
Garner, H. V.....	D-18	Khlebnikova, N. A.....	D-10, D-14
Gericke, W. F.....	D-10	Khvostova, V. V.....	D-9
Glazunov, I. V.....	D-18	Killand, T. K.....	D-17
Goldat, S. J.....	D-9	Kirkbride, Mrs. F. B.....	D-17
Gomoljako, L. G.....	D-8	Konis, E.....	D-10
Goodwin-Wilson, R.....	D-21	Kreutzer, W. A.....	D-14
Gordon, Bess.....	D-12	Kurz, H.....	D-10
Gordon, W. E.....	D-12	Kvint, N.....	D-5
Grebinsky, S. O.....	D-8	Kylin, Harald.....	D-6
Greenway, P. J.....	D-18		
Greulach, V. A.....	D-10	Lagasse, F. S.....	D-16
Grizzard, A. L.....	D-22	Lamprecht, Herbert.....	D-21
Gukova, M. M.....	D-15, D-16	Larsen, E. L.....	D-19
Guss, J. S.....	D-6	Leonard, E. R.....	D-20
Gustafsson, Åke.....	D-9, D-17	Levan, Albert...D-10, D-13, D-14, D-16	
		Lincoln, R. E.....	D-20
Hair, J. B.....	D-9	Lindgren, D. L.....	D-14
Hamilton, J. M.....	D-15	Littlefield, E. W.....	D-19, D-20
Hancock, N. I.....	D-14	Löve, Askell.....	D-9
Harder, Richard.....	D-3	Löve, Doris.....	D-3
Harmon, M. H.....	D-19	Lothian, Noel.....	D-6
Haskin, H. H.....	D-8	Lundell, C. L.....	D-6
Hatcher, E. S. J.....	D-21	Lukovinikov, E. K.....	D-10
Heath, O. V. S.....	D-10	Lutikova, O. T.....	D-8, D-21
Hébert, L. P.....	D-18	Lyon, C. B.....	D-21
Hibbard, A. D.....	D-15		
Higgins, Vera.....	D-3	McClure, T. T.....	D-21
Hildebrand, E. M.....	D-21	Mack, G. L.....	D-15
Hirschhorn, Elisa.....	D-5	Magnusson, A. H.....	D-6
Hock, C. W.....	D-14	Mahoney, C. H.....	D-21
Hofmeyr, J. D. J.....	D-20	Makarevskaja, E. A.....	D-15
Holubinsky, I. N.....	D-10	Malyshev, P.....	D-5
Hutcheson, T. B.....	D-22	Mann, L. K.....	D-10
		Marchionatto, J. B.....	D-11
Iluridze-Molchan, K. M.....	D-15	Marshall, R. M.....	D-22
Ilyh, G.....	D-9	Marshall, W. T.....	D-4
Ingwersen, W. E. T.....	D-6	Martin, G. W.....	D-5
Irizarry Rubio, G.....	D-19	Martynenko, M. A.....	D-7

	Page		Page
Matthews, O. F.....	D-19	Potzger, J. E.....	D-7
Maxon, W. R.....	D-4	Powers, W. L.....	D-22
May, Curtis.....	D-19	Prescott, G. W.....	D-6
Melin, Eliás.....	D-11	Proctor, G. R.....	D-4
Meredith, W. O. S.....	D-13	Proskurnikova, T. A.....	D-16
Metcalf, F. P.....	D-7	Putnam, L. G.....	D-13
Meyer, Arthur.....	D-21		
Midgloy, A. R.....	D-15	Radel, L. H.....	D-12
Milbrath, D. G.....	D-17	Randhawa, M. S.....	D-6
Miller, M. R.....	D-15	Rands, R. D.....	D-18
Miroshnichenko, K. G.....	D-13	Rayner, R. W.....	D-20
Molestina O., Ernesto.....	D-7	Rensburg, H. J. van.....	D-16
Montedónico, L. A.....	D-16	Reuther, Walter.....	D-16
Moshkov, B. S.....	D-11	Richards, R. R.....	D-7
Moskovetz, K. G.....	D-12	Rigg, G. B.....	D-7
Moulton, J. E.....	D-13	Ripley, Dwight.....	D-7
Mowery, L. C.....	D-22	Rischkov, V. L.....	D-12
Mrak, E. M.....	D-20	Robbins, W. J.....	D-5
Müntzing, Arne.....	D-9, D-13	Robbins, W. R.....	D-21
Müntzing, G.....	D-9	Roberts, R. C.....	D-22
Muller, C. H.....	D-19	Robertson, D. W.....	D-13
Murneck, A. E.....	D-15	Robertson, R. N.....	D-11
Murrill, W. A.....	D-5	Roe, A. F.....	D-8
Myers, J. C.....	D-4	Rosen, G. von.....	D-21, D-22
		Rowland, H.....	D-13
Nattrass, R. M.....	D-18	Rubin, B. A.....	D-8
Navarro de Andrade, Edmundo.....	D-7	Rudenskaya, B. J.....	D-18
Neel, L. R.....	D-16	Ruehle, G. D.....	D-5
Neff, M. S.....	D-17	Rupp, H. M.....	D-4
Nelson, Ray.....	D-17	Russell, E. J.....	D-18
Newton, J. H.....	D-14		
Nilsson-Leissner, Gunnar.....	D-16	Sallens, H. R.....	D-13
Nores, J. G.....	D-16	Saltykovsky, M. I.....	D-13
Northen, H. T.....	D-8	Sampson, Kathleen.....	D-16
Novikov, V. A.....	D-14	Sapozhnikov, D. I.....	D-9, D-11
		Saprygina, E. S.....	D-13
Ostergren, G.....	D-8, D-16	Sayre, C. B.....	D-22
O'Mara, J. G.....	D-11	Scanlan, G. M.....	D-4
		Schermerhorn, L. G.....	D-22
Palócioux, P. de.....	D-3	Schrader, A. L.....	D-15
Palmer, C. M.....	D-6	Schroeder, R. A.....	D-18
Palmer, E. J.....	D-19	Schweinfurth, Charles.....	D-4
Parham, B. E.....	D-12	Sears, P. B.....	D-7
Parrott, I. M.....	D-13	Sell, F. W.....	D-13
Peacock, N. D.....	D-21	Sell, H. M.....	D-16
Perkins, W. R.....	D-22	Shalucha, Barbara.....	D-12
Peyer, E.....	D-15	Shipley, M. A.....	D-15
Phaff, H. J.....	D-20	Shmuck, A. A.....	D-9
Philosophova, T. P.....	D-15	Shreve, Forrest.....	D-7
Pigulevskaya, N. N.....	D-8	Sierp, Hermann.....	D-3
Pilar Rodrigo, América del.....	D-4	Simons, J. S.....	D-20
Pirone, P. P.....	D-19	Sinclair, W. B.....	D-14

	Page
Singer, Rolf.....	D-5
Skinner, J. J.....	D-14
Smirnov, A.....	D-9
Smirnova, V. A.....	D-12
Smith, E. L.....	D-9
Smith, F. B.....	D-15
Smith, Mrs. F. C.....	D-4
Smith, H. M.....	D-22
Smith, Ora.....	D-18
Sokolovskaya, A. P.....	D-9
Soxman, G. M.....	D-4
Spangenberg, G. E.....	D-16
Spiridonova, N. S.....	D-8
Sreenivasan, A.....	D-13
Stanier, R. Y.....	D-22
Starr, G. H.....	D-20
Staten, Glen.....	D-14
Stebbins, G. L.....	D-9
Stewart, H. C. E.....	D-7
Stockwell, Palmer.....	D-20
Strand, A. B.....	D-21
Strasburger, Eduard.....	D-3
Strélkova, O. S.....	D-9
Studhalter, R. A.....	D-6
Sveshnikova, I. N.....	D-11
Svihla, R. D.....	D-17
Swallen, J. R.....	D-4
Tedin, Olof.....	D-9
Tehon, L. R.....	D-20
Tennent, R. B.....	D-16
Thaller, E. I.....	D-8
Thomas, A. S.....	D-16
Thommen, Edouard.....	D-7
Thomson, J. W., jr.....	D-6
Thurston, E. D.....	D-5
Tiedjens, V. A.....	D-22
Tillotson, H. S.....	D-7
Tisdale, W. B.....	D-12

	Page
Tosh, J. P.....	D-7
Truscott, J. H. L.....	D-21
Tucker, C. M.....	D-12
Turrill, W. B.....	D-4
Ullman, S. B.....	D-10
Uphof, J. C.....	D-20
Urlaub, G. S.....	D-5
Valleau, W. D.....	D-12
Vaughn, R. H.....	D-20
Vecchicello, Hubert.....	D-5, D-7
Verner, A.....	D-5
Volk, N. J.....	D-22
Wagner, W. H., jr.....	D-5
Walc, R. S.....	D-4
Walker, Gilbert.....	D-16
Walkom, A. B.....	D-3
Wallace, R. W.....	D-14
Wardlaw, C. W.....	D-20
Weatherby, C. A.....	D-3, D-5
Webster, J. E.....	D-14
Went, F. W.....	D-3
Western, J. H.....	D-16
Wherry, E. T.....	D-4
White, C. T.....	D-5
Williams, L. O.....	D-4
Woodroof, N. C.....	D-16
Wright, Vedder.....	D-20
Yatzynina, K. N.....	D-22
York, H. H.....	D-20
Zahkarov, B. S.....	D-11
Zahniser, Howard.....	D-3
Zalduondo, J. A.....	D-22
Zerling, V. V.....	D-11
Zhdanova, L. P.....	D-10, D-11
Zhebrak, A. R.....	D-13



B I B L I O G R A P H Y O F A G R I C U L T U R E

SECTION D
PLANT SCIENCE

Vol. 1

August 1942

No. 2

The Bibliography of Agriculture is issued monthly
in four sections.

Section A, Agricultural Economics and Rural Sociology.
Supersedes Agricultural Economics Literature.

Section B, Agricultural Engineering. Supersedes Cur-
rent Literature in Agricultural Engineering.

Section C, Entomology. Supersedes Entomology Current
Literature.

Section D. Plant Science. Supersedes Plant Science
Literature.

Abbreviations used in this publication are those listed in U. S. Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications. April 1939.

Call numbers following the citations are those of the U. S. Department of Agriculture Library unless otherwise noted.

The Department can supply only its own publications; other items cited may ordinarily be obtained from their respective publishers. Many of them are available for consultation in public or other libraries.

Photoprint or microfilm copies of any publication listed may be obtained from the Library. Order blanks giving prices and method of payment will be sent on request.

BIBLIOGRAPHY OF AGRICULTURE
SECTION D
PLANT SCIENCE

Vol. 1

August 1942

No. 2

This list is arranged under three main sections: Botanical Science; Crop Plants, including diseases; Soils and Fertilizers

BOTANICAL SCIENCE

GENERAL

- ACKERMAN, F. G., and CREWS, C. E. A winged herbarium for educational purposes. Amer. Soc. Agron. Jour. 34(7): 668-672, illus. July 1942. 4 Am34P
- AMES, OAKES. The importance of the herbarium in horticulture. Amer. Orchid Soc. Bul. 11(3): 75-77, pl. (front.) Aug. 1, 1942. 80 Am329
With reference to orchids.
- BRADFORD, FREDERICK C. Conserving our harvests. Amer. Soc. Hort. Sci. Proc. 40: 599-606. May 1942. 81 Sol2
- BRITISH COLOUR COUNCIL. Horticultural colour chart. v. 2, pl. 101-200. [London, Royal horticultural society, 1942. 334.2 B76
- CAMPBELL, DOUGLAS H. Evolution of the land plants. Sci. Monthly 55(2): 99-113, illus. Aug. 1942. 470 Sci23
- KNOFF, CARL S. The significance of certain plant names. Madroño 6(7): 209-211. July 1942. 450 M26
- ROJAS, TEODORA. Jardín botánico del Paraguay. (cont.) Agr., Com. e Indus. Rev. Min. Agr., Com. e Indus. (Paraguay) 2(5): 46-48. Mar. 1942. 9.7 Ag8R
- RYERSON, KNOWLES A. Our National arboretum and its relation to AABGA. Parks & Recreation 25(11/12): 441-442. July/Aug. 1942. 98.8 P23
Presented at meeting of American Association of Botanical Gardens and Arboretums.

BIBLIOGRAPHY

- BLAKE, SIDNEY F., and ATWOOD, ALICE C. Geographical guide to floras of the world. An annotated list with special reference to useful plants and common plant names. Pt. I. U. S. Dept. Agr. Misc. Pub. 401, 336 pp. 1942. 1 Ag84M
I. Africa, Australia, North America, South America, and islands of the Atlantic, Pacific, and Indian oceans.
- HOUSE, HOMER D. Bibliography of the botany of New York state 1751-1940. pt. 2. N. Y. State Mus. Bul. 329, pp. 179-233. Albany, June 1942. 500 M48B

BIOGRAPHY

- ALEXANDER, GORDON. Francis Ramaley. Science 96(2483): 102-103. July 31, 1942. 470 Sci2
- BATCO, S. Prof. Joseph Paczoski. Nature (London) 150(3794): 85-86. July 18, 1942. 472 N21

- CURTIS, CHARLES H. The seedsman of Brentford-End. Gard. Chron. 112(2897): 4. July 4, 1942. 80 G162
N. Swinden who published The Beauties of Flora Display'd, in 1778.
- DR. Ondess Lamar Inman. Science 96(2483): 104. July 31, 1942. 470 Sci2
Brief notice of death, July 21, 1942.
- GEORGE Percy Darnell Smith. Austral. Inst. Agr. Sci. Jour. 8(2): 85-86, port. June 1942. 23 Au74
Died April 10, 1942.
- HOWELL, JOHN T. Concerning David Douglas. Leaflets West. Bot. 3(7): 160-162. July 21, 1942. 450 L47
Lists localities visited by Douglas in California with the dates of his visits.
- PERRELL, FRANCIS W. Botanical collectors of the Philadelphia local area. Bartonia 21: 38-57. May 27, 1942. Bibliographical footnotes. 451 P532
- REDDICK, DONALD. Ivan Claude Jagger, 1889-1939. Phytopath. 32(7): 549-553, port. July 1942. 464.8 P56
Publications of Ivan Claude Jagger, p. 553.
- RUSSELL, EDWARD J. Sir Daniel Hall, K. C. B., F. R. S. Nature (London) 150(3795): 114-115. July 25, 1942. 472 N21
- SEIERIZ, WILLIAM. Laurence S. Moyer. Science 96(2483): 103-104. July 31, 1942. 470 Sci2
- STEPHENS, EDITH L. Ernest Edward Galpin, Hon. D. Sc. Jour. So. African Bot. 8(2): 197-199, pl. ix (port.) Apr. 1942. 450 J8262

SYSTEMATIC BOTANY

- AHRENDS, LESLIE W. A. A survey of the genus Berberis L. in Asia. (cont.) Jour. Bot. 80(950, sup.): 81-88. Feb. 1942. 450 J82
- ALLARD, HARRY A. The hybrid oak, x Quercus rudkini, at Arlington, Virginia. Rhodora 44(524): 262-266, pl. 709. Aug. 1942. 450 R34
Q. phellos x marilandica.
- BAILEY, IRVING W., and SMITH, ALBERT C. Degeneriaceae, a new family of flowering plants from Fiji. Arnold Arboretum Jour. 23(3): 356-365, v pl. July 1942. 451 Ar6J
Degeneria n.g., D.vitiensis, type of the new family closely related to Magnoliaceae.
- BALL, CARLETON R. Far western novelties in Salix. Madroño 6(7): 227-239. July 1942. 450 M26
Description of new varieties of S. pulchra and other new combinations.
- BARNEBY, R. C. An addition to the genus Swertia. Leaflets West. Bot. 3(7): 135-157. July 21, 1942. 450 L47
S. gypsicola.
- BEEBLE, ALAN A. Scirpus criniger transferred to Eriophorum. Leaflets West. Bot. 3(7): 164-166. July 21, 1942. Literature cited. 450 L47
- BLAKE, SIDNEY F. Five new Asteraceae from Oaxaca, collected by W. H. Camp. Wash. Biol. Soc. Proc. 55: 113-119. Aug. 13, 1942. 500 W272
Oxylogus oaxacanus, Erigeron mihianus, Archibaccharis campii, A. caloneura, Perezia erioloma n. spp.
- BRENCKLE, JACOB F. A new Californian Polygonum. Leaflets West. Bot. 3(7): 166-167. July 21, 1942. 450 L47
P. montereyense.

- BROWN, JOHN R. Notes on haworthias (cont.) Cactus and Succulent Jour. 14(7): 97-98, illus. July 1942. 451 C11
Haworthia herrei, *H. herrei* var. *depauperata*.
- CAMP, WENDELL H. Ecological problems and species concepts in *Crataegus*. Ecology 23(3): 368-369. July 1942. Literature cited. 410 Ec7
- CHRISTIAN, H. B. Some new *Aloe* species from central and east tropical Africa. II. Jour. So. African Bot. 8(2): 165-177, pl. i-viii. Apr. 1942. 450 J8262
- CLOKEY, IRA W. Notes on the flora of the Charleston mountains, Clark county, Nevada. IV. *Astragalus*. [*A. aequalis*, *A. hemigyris* n. spp.] Madroño 6(7): 211-222, pl. 27. July 1942. 450 M26
- CROIZAT, LEON. New species of *Croton* L. from New Guinea. Arnold Arboretum Jour. 23(3): 369-376. July 1942. 451 Ar6J
- CROIZAT, LEON. Something about nomenclature rules. Cactus and Succulent Jour. 14(7): 94-96. July 1942. 451 C11
- CRONQUIST, ARTHUR. A new *Erigeron* from Idaho. Leaflets West. Bot. 3(7): 167-168. July 21, 1942. 450 L47
E. engelmanni subsp. *davisii*.
- EASTWOOD, ALICE. New western plants. IV. Leaflets West. Bot. 3(7): 157-160. July 1942. 450 L47
Lupinus kerrii, *L. whiltonae*, *Lotus intricatus*, *Cycladenia jonesii* n. spp.
- FERNALD, MERRITT L. *Hibiscus moscheutos* and *H. palustris*. Rhodora 44(524): 266-278, illus. (maps). Aug. 1942. 450 R34
 Now considers these species distinct.
- FOSBERG, FRANCIS R. The genus *Batocarpus* Karst (Moraceae). Wash. Biol. Soc. Proc. 55: 99-101. Aug. 13, 1942. 500 W272
 Proposes combination of the genus *Anonocarpus* with *Batocarpus* under the latter, and older, name.
- HARPER, FRANCIS. Two more available plant names of William Bartram. Bartonia 21: 6-8. May 27, 1942. 451 P532
Pinckneya bracteata n. comb. (*Bignonia*), *Magnolia pyramidata* Bartram not Pursh.
- HEINIS, FRITZ. Ueber einen weidenbastard. (*Salix appendiculata* Vill. x *S. nigricans* Sm. *Salix rytzii* hybr. nov.) Schweiz. Bot. Gesell. Ber. 51: 310-312. Oct. 1941. 451 Sch9
- HOTSON, HUGH H. Some species of *Papulaspora* associated with rots of gladiolus bulbs. Mycologia 34(4): 391-398, illus. July/Aug. 1942. Literature cited. 450 M99
 Saprophytes living on decayed bulb; *P. dodgei* and *P. appendicularis* n. spp.
- HOWELL, JOHN T. The identity of *Phacelia humilis* var. *calycosa*. Leaflets West. Bot. 3(7): 162-163. July 21, 1942. 450 L47
 Concludes that it is *P. purpusii*.
- KOBUSKI, CLARENCE E. Studies in the Theaceae. XII. Notes on the South American species of *Termstroemia*. Arnold Arboretum Jour. 23(3): 298-343. July 1942. 451 Ar6J
- LEMMON, W. P. A new *Azalea* from the mountains of Georgia. Bartonia 21: 5-6. May 27, 1942. 451 P532
A. furbishii.
- MASON, HERBERT L. Notes on Polemoniaceae. Madroño 6(6): 200-205, pl. 26. Apr. 1942. 450 M26
Gilia clokeyi, *Linanthus wigginsii* n. spp.

- MERRILL, ELMER D., and PERRY, LILY M. *Plantae papuanae archboldianae*. IX. (concl.) *Arnold Arboretum Jour.* 23(3): 267-297. July 1942. 451 Ar6J
- REDMAN, KENNETH. Nomenclature confusion in the case of the balsam poplar or Tacamahac. *Amer. Pharm. Assoc. Jour.* 31(7): 220-223, illus. July 1942. References. 396.9 Am33J
- REHDER, ALFRED. New species, varieties and combinations from the collections of the Arnold arboretum. *Arnold Arboretum Jour.* 23(3): 377-381. July 1942. 451 Ar6J
- ST. JOHN, HAROLD. Nomenclatorial changes in *Glossopetalon* (Celastraceae). *Wash. Biol. Soc. Proc.* 55: 109-112. Aug. 13, 1942. 500 W272
- Discussion of the recent revision by Margaret Ensign under *Forsellisia*.
- SCHUBERT, BERNICE G. *Desmodium glutinosum*. *Rhodora* 44(524): 279-280. Aug. 1942. Bibliographical footnotes. 450 R34
- "Therefore *Desmodium glutinosum* (Muhl. ex Willd.) Wood seems to be the correct name to apply to the plant described by Willdenow, and for the plant described by Michaux with which it is identical."
- SMITH, ALBERT C. A nomenclatural note on the *Himantandraceae*. *Arnold Arboretum Jour.* 23(3): 366-368. July 1942. 451 Ar6J
- The correct name for the single genus is *Himantandra* rather than *Galbulimina*.
- SMITH, WILLIAM W., and FLETCHER, HAROLD R. The genus *Primula*: Section *Candelabra*, Balf. fil. *Bot. Soc. Edinb. Trans. and Proc.* 33(2): 122-181. 1941. 451 Ed4T
- SMITH, WILLIAM W., and FLETCHER, HAROLD R. New species of alpine primulas. *Bot. Soc. Edinb. Trans. and Proc.* 33(2): 107-121. 1941. 451 Ed4T
- TILLSON, ALBERT H., and MULLER, CORNELIUS H. Anatomical and taxonomic approaches to subgeneric segregation in American *Quercus*. *Amer. Jour. Bot.* 29(7): 523-529, illus. July 1942. Literature cited. 450 Am36
- TSENG, CHENG K. Studies on Chinese species of *Griffithsia*. *Mich. Acad. Sci. Papers* 27(1941): 105-116, illus. Mar. 1942. Literature cited. 500 M582
- G. netcalfii* n. sp.
- TURRILL, WILLIAM B. Descriptions of some Greek fritillaries. *Gard. Chron.* 111(2893): 239-240. June 6, 1942. 80 G162
- Fritillaria davisii*, *F. rhodocanakis*.
- WALKER, EGBERT H. New and critical Chinese and Indo-Chinese *Myrsinaceae*. *Arnold Arboretum Jour.* 23(3): 344-355, illus. July 1942. 451 Ar6J
- Ardisia kwangtungensis*, *A. merrillii*, *A. pedalis*, *A. tsangii*, n. spp. Collections made in southern Kwangtung and adjacent Tonkin, Indo-China.
- WEATHERBY, CHARLES A. A list of type specimens in Elliott's herbarium. *Rhodora* 44(524): 249-262. Aug. 1942. 450 R34
- WHEELER, LOUIS C. *Amaranthus* of Philadelphia and vicinity. *Bartonia* 21: 2-4. May 27, 1942. 451 P532
- WILLIAMS, LOUIS O. *Euburophyton* Heller: a valid genus of the *Orchidaceae*. *Madroño* 6(6): 205. Apr. 1942. 450 M26
- E. austinae* (*Chloraea austinae*, *Serapias austinae*...)
- WILLIAMS, LOUIS O. A new *Masdevallia* from Panama. *Amer. Orchid Soc. Bul.* 11(3): 93, pl. 3. Aug. 1, 1942. 80 Am329
- M. collina*.

FERNS AND FERN ALLIES

- COPELAND, EDWIN B. *Filicum novarum* CXXVIII diagnoses. Calif. Univ. Pubs. Bot. 18(10): 217-226. July 25, 1942. 500 C125B
- ST. JOHN, HAROLD. The type locality of *Polystichum lemmoni* Underwood. Madrono 6(7): 223-227. July 1942. 450 M26
- South side of Mount Eddy, California is proposed as the lectotype locality.
- WAKEFIELD, N. A. A new species of *Cyathea*. Victorian Nat. 59(2): 33-34, illus. June 1942. 410 V66
- Cyathea marcescens*.
- WHERRY, EDGAR T. The ferns and lycosperms of Pennsylvania. Bartoniana 21: 11-37. May 27, 1942. Bibliographical footnotes. 451 P532
- Author proposes new term lycosperm as synonym for "fern-ally."
- WHERRY, EDGAR T. A woodfern hybrid deserves a name. Bartoniana 21: 1-2, pl. May 27, 1942. 451 P532
- Dryopteris leedsii* (*D. goldiana* x *D. marginalis*).

FUNGI

- AJELLO, LIBERO. *Polychytrium*: a new cladochytriaceous genus. Mycologia 34(4): 442-451, illus. July/Aug. 1942. Literature cited. 450 M99
- P. aggregatum*.
- ARDE, WALKER R., JR. Studies in the genus *Tricholoma*. I. Mycologia 34(4): 416-423, illus. July/Aug. 1942. 450 M99
- T. cuneifoloides* n. sp.
- BAXTER, DOW V. Some resupinate polypores from the region of the Great Lakes. XIII. Mich. Acad. Sci. Papers 27(1941): 139-161, illus. (maps), xi pl. Mar. 1942. Literature cited. 500 M582
- BESSEY, ERNST A. Some problems in fungus phylogeny. Mycologia 34(4): 355-379. July/Aug. 1942. Literature cited. 450 M99
- BISBY, GUY R. Mycological nomenclature. Phytopath. 32(7): 644-645. July 1942. 464 8, P56
- Suggests making legal the conservation of specific names firmly established in literature by wide use.
- BLAND, DAVID E. A study of the toxicity of Australian vertical retort creosote oils to *Lentinus lepideus* Fr., *Polystictus versicolor* (L.) Fr., and *Madison* 517. Austral. Council Sci. & Indus. Res. Jour. 15(2): 135-146. May 1942. Literature. 514 Au72J
- CARRION, A. L. *Chromoblastomycosis*. Mycologia 34(4): 424-441, illus. July/Aug. 1942. References. 450 M99
- Fonsecaea pedrosi* (Brumpt) Negróni emend. var. *phialophorica*.
- CHRISTENSEN, CLYDE M., KAUFERT, FRANK H., SCHMITZ, HENRY, and ALLISON, JOSEPH L. *Hormodendrum resinae* (Lindau), an inhabitant of wood impregnated with creosote and coal tar. Amer. Jour. Bot. 29(7): 554-558, illus. July 1942. Literature cited. 450 Am36
- CHRISTENSEN, CLYDE M. Two cases of unusual development of fruit bodies. Mycologia 34(4): 400-402, illus. July/Aug. 1942. 450 M99
- Non-geotropic development in *Russula* (? *atropurpurea*) & *Daedalea confragosa*.
- COKER, WILLIAM C. Notes on rare hydnums. Elisha Mitchell Sci. Soc. Jour. 58(1): 94-97, illus., pl. 13-16. July 1942. 500 E14
- Hydnellum geogonium*, *H. floriforme*, *Sarcodon blackfordae*, *Phellodon hesleri*.

- COUCH, JOHN N., and WHITTEN, ALMA J. Observations on the genus *Blastocladiella*. Amer. Jour. Bot. 29(7): 582-591, illus. July 1942. Literature cited. 450 Am36
- B. asperosperma*, *B. laevisperma*, *B. cystogena* n. spp. Transfers *Clavochytridium* & *Sphaerocladia* to *Blastocladiella*.
- DAVIDSON, ROSS W., CAMPBELL, WILLIAM A., and VAUGHN, DOROTHY B. Fungi causing decay of living oaks in the eastern United States and their cultural identification. U. S. Dept. Agr. Tech. Bul. 785, 65 pp., illus., 3 pl. Jan. 1942. Literature cited. 1 Ag84To
- FITZPATRICK, HARRY M. Revisionary studies in the *Coryneliaceae*. *Mycologia* 34(4): 464-488, illus. July/Aug. 1942. Bibliographical footnotes. 450 M99
- Coryneliospora*, *Lagenulopsis* new genera (*C. fructicola*, *L. bispora*), *Tripospora macrospora* n. sp.
- FREI, MAX. Massenvorkommen von myxomyceten. (Beobachtungen bei winterthur im Juli 1939). Schweiz. Bot. Gesell. Ber. 51: 113-115. Oct. 1941. References. 451 Sch9
- GAUMANN, ERNST. Mykologische notizen. IV. Schweiz. Bot. Gesell. Ber. 51: 338-343. Oct. 1942. Literature cited. 451 Sch9
- GAUMANN, ERNST. Zur kenntnis einiger umbelliferen puccinien. Schweiz. Bot. Gesell. Ber. 51: 143-164. Oct. 1941. References. 451 Sch9
- Puccinia peucedani austriaci*, *P. thomasi*, *P. veneta* n. spp.
- HANSEN, HANS N. Heterocaryosis and variability. *Phytopath.* 32(7): 639-640. July 1942. Bibliographical footnotes. 464.8 P56
- HARVEY, JAMES V. A study of western water molds. Elisha Mitchell Sci. Soc. Jour. 58(1): 16-42, pl. 1-8. July 1942. Literature cited. 500 El4
- HESLER, LEXEMUEL R. Notes on southern Appalachian fungi. IV. Tenn. Acad. Sci. Jour. 17(3): 242-249, illus. July 1942. Literature cited. 500 T25A
- LANGDON, R. F. The genus *Cerebella cesati*, its biologic status and use. *Phytopath.* 32(7): 613-617. July 1942. Literature cited. 464.8 P56
- A saprophyte commonly associated with *Claviceps* spp.
- MAYOR, EUGENE. Etude biologique de *Puccinia allii-phalaridis* Klebahn. Schweiz. Bot. Gesell. Ber. 51: 313-320. Oct. 1941. References. 451 Sch9
- MULLER, FRITZ W. Zur wirkstoffphysiologie des bodenpilzes *Mucor ramanianus*. Schweiz. Bot. Gesell. Ber. 51: 165-256, illus. Oct. 1941. References. 451 Sch9
- NOELES, MILDRED K. Secondary spores in *Corticium effuscatum*. Canad. Jour. Res. Sect. C, Bot. Sci. 20(7): 347-357, illus., pl. July 1942. References. 470 C16C
- OLIVE, LINDSAY S. Nuclear phenomena involved at meiosis in *Coleosporium helianthi*. Elisha Mitchell Sci. Soc. Jour. 58(1): 43-51, pl. 9-10. July 1942. Literature cited. 500 El4
- PORTER, J. P. *Massospora tipulae* sp. nov. and *Tipula triplex colei* Alexander subsp. nov. Elisha Mitchell Sci. Soc. Jour. 58(1): 65-68, illus. July 1942. Literature cited. 500 El4
- PORTER, JOHN N. The mycorrhiza of *Zeuxine strateumatica*. *Mycologia* 34(4): 380-390, illus. July/Aug. 1942. Literature cited. 450 M99
- Rhizoctonia mucoroides*.

- SEEVER, FRED J. Photographs and descriptions of cup-fungi. XXXVII. *Pezicula purpurascens*. *Mycologia* 34(4): 412-415, illus. July/Aug. 1942. 450 M99
- Ascoconidium* (n. gen.) *A. castaneae* associated with *Pezicula purpurascens* and possibly representing its perfect stage.
- SHANOR, LELAND. A new *Rozella* of the Polysporangiate series. *Elisha Mitchell Sci. Soc. Jour.* 58(1): 99-101, pl. 17. July 1942. Literature cited. 500 El4
- R. achlyae* parasitic on *Achlya flagellata*.
- SMITH, ALEXANDER H. New and unusual agarics from Michigan. III. *Mich. Acad. Sci. Papers* 27(1941): 57-74, vii pl. Mar. 1942. Literature cited. 500 M582
- New species in *Lepiota* and *Tricholoma*.
- SNELL, WALTER H. New proposals relating to the genera of the Boletaceae. *Mycologia* 34(4): 403-411, illus. July/Aug. 1942. Literature cited. 450 M99
- Proposed to adopt *Suillus* in place of *Ixocomus*, *Leccinum* in place of *Trachypus*; to consider *Versipellis* a nomen ambiguum; to form a new genus, *Leucogyroporus*, with species removed from *Gyroporus*.
- THIRUMALACHAR, M. J. A new species of *Puccinia* on *Chomelia asiatica* O. Kze. *Current Sci. [India]* 11(5): 197-198, illus. May 1942. 475 Sci23
- Puccinia chomelia*.
- VOORHEES, RICHARD K. Life history and taxonomy of the fungus *Physalospora rhodina*. *Fla. Agr. Expt. Sta. Tech. Bul.* 371, 91 pp., illus. Gainesville, May 1942. Literature cited. 100 F66S
- P. abdita* comb. nov.
- WHITE, NEVILLE H. The genetics of *Ophiobolus graminis* Sacc. 1. Heritable variations for culture colour and pathogenicity. *Austral. Council Sci. & Indus. Res. Jour.* 15(2): 118-124. May 1942. References. 514 Au72J
- WHITE, W. L. A new Hemiascomycete. *Canad. Jour. Res. Sect. C, Bot. Sci.* 20(7): 389-395, illus. July 1942. References. 470 C16C
- Helicogonium jacksonii* growing on *Corticium microsporum*.

CRYPTOGAMS OTHER THAN FUNGI

- BLINKS, LAWRENCE R. The relations of temperature to the potassium effect and the bioelectric potential of *Valonia*. *Jour. Gen. Physiol.* 25(6): 905-916. July 20, 1942. Bibliographical footnotes. 447.8 J822
- CHODAT, FERNAND, and SIEBENTHAL, ROGER de. Effet tératologique de la colchicine sur une algue du genre *Hormidium*. *Schweiz. Bot. Gesell. Ber.* 51: 434-449, illus. Oct. 1941. References. 451 Sch9
- DIXON, HUGH N. Papuan mosses. (cont.) *Jour. Bot.* 80(950): 25-35. Feb. 1942. 450 J82
- DUNN, MARY D. The marine algal associations of St. Andrews district. I. The dominant associations of the spray and littoral regions. *Bot. Soc. Edinb. Trans. and Proc.* 33(2): 83-93. 1941. References. 451 Ed4T
- FOGG, G. E. Studies on nitrogen fixation by blue-green algae. I. Nitrogen fixation by *Anabaena cylindrica* Lemm. *Jour. Expt. Biol.* 19(1): 78-87. May 1942. References. 442.8 B77

- GILBERT, WILLIAM J. Notes on *Caulerpa* from Java and the Philippines. Mich. Acad. Sci. Papers 27(1941): 7-26, illus. Mar. 1942. Literature cited. 500 M582
- GUSTAFSON, ALTON H. Notes on the algal flora of Michigan. Mich. Acad. Sci. Papers 27(1941): 27-36. Mar. 1942. Bibliography. 500 M582
- HARRISON, JOHN W. H. *Andreaea hartnani* Thed. and *A. blyttii* Schimp., two mosses new to the British Isles, from the Hebrides, with remarks on other Hebridean species of the genus. Jour. Bot. 80(950): 35-38. Feb. 1942. 450 J82
- HARVEY, EDMUND N. Hydrostatic pressure and temperature in relation to stimulation and cyclosis in *Nitella flexilis*. Jour. Gen. Physiol. 25(6): 855-863. July 20, 1942. References. 447.8 J822
- HEDRICK, JOYCE. Lichens in and near the Olympic national park, Washington. Mich. Acad. Sci. Papers 27(1941): 45-56. Mar. 1942. Literature cited. 500 M582
- LINCOLN, RALPH E., and GOWEN, JOHN W. Mutation of *Phytonomonas stewartii* by X-ray irradiation. Genetics 27(4): 441-462, 2 pl. July 1942. Literature cited. 442.8 G28
- MEYER, SAMUEL L. Physiological studies on mosses. III. The influence of the moisture factor on the formation of leafy moss plants. Tenn. Acad. Sci. Jour. 17(3): 290-295, illus. July 1942. Literature cited. 500 T25A
- STRAIN, HAROLD H., and MANNING, WINSTON M. Chlorofucine (chlorophyll gamma), a green pigment of diatoms and brown algae. Jour. Biol. Chem. 144(3): 625-636. Aug. 1942. Bibliography. 381 J824
- THIVY, FRANCESCA. A new species of *Ectochaete* (Huber) Wille, from Woods Hole, Massachusetts. Biol. Bul. 83(1): 97-110, illus. Aug. 1942. Literature cited. 442.8 B52
E. taylori.
- WALP, LER. The effect of nitrate and ammonium assimilation on cell proliferation of *Nostoc muscorum*. Growth 6(2): 173-177. June 1942. References. 442.8 G91

GEOGRAPHIC BOTANY AND ECOLOGY

- ALLARD, HARRY A. Lack of available phosphorus preventing normal succession on small areas on Bull Run mountain in Virginia. Ecology 23(3): 345-353, illus. July 1942. Literature. 410 Ec7
- BECHNERER, ALFRED. Beiträge zur kenntnis der Walliser flora. Schweiz. Bot. Gesell. Ber. 51: 326-337. Oct. 1941. 451 Sch9
Ergänzende noten und Literaturnachweise.
- BENSON, LYMAN. The relationship of *Ranunculus* to the North American floras. Amer. Jour. Bot. 29(7): 491-500, illus.(map). July 1942. Literature cited. 450 Am36
- BOTANIKK og taksasjon. Om registrering av vegetasjonstyper. Tidsskr. for Skogbruk 49(11): 341-351. Nov. 1941. Literature cited. 99.8 T432
- CRONEMILLER, FRED P. Chaparral. Madroño 6(6): 199. Apr. 1942. 450 M26
- DREW, WILLIAM B. The revegetation of abandoned crop land in the Cedar Creek area, Boone and Calloway counties, Missouri. Mo. Agr. Expt. Sta. Res. Bul. 344, 52 pp., illus. (incl. map). Columbia, June 1942. Literature cited. 100 M693
- EGLER, FRANK E. Vegetation as an object of study. Phil. of Sci. 9(3): 245-260. July 1942. Literature cited. 470 P54

- THE FLOWERING plants of South Africa. Edited by E. P. Phillips. v. 21, col. pl. 801-840. Brook, Ashford, Kent, L. Reeve & Co., 1941. 450 P75
- FREI, MAX. Erste ergebnisse einer biocoenologischen untersuchungen schweizerischen buchenwälder. Schweiz. Bot. Gesell. Ber. 51: 479-530. Oct. 1941. References. 451 Sch9
- GILOMEN, HANS. Beiträge zur flora des Berner oberlandes und des Wallis. Schweiz. Bot. Gesell. Ber. 51: 344-347. Oct. 1941. 451 Sch9
- GSELL, RUDOLF. Ueber messungen an *Anacamptis pyramidalis* (L.) Rich. und anderen europäischen orchideen. Schweiz. Bot. Gesell. Ber. 51: 257-309. Oct. 1941. References. 451 Sch9
Includes *Platanthera* spp. and *Orchis* spp.
- HANES, CLARENCE R. The Atlantic coastal plain element in the flora of Kalamazoo county, Michigan. Mich. Acad. Sci. Papers 27(1941): 37-43. Mar. 1942. 500 M582
- HOWELL, JOHN T. A list of vascular plants from Guadalupe Island, Lower California. Leaflets West. Bot. 3(7): 145-154. July 21, 1942. References. 450 L47
Daeriopsis n. gen. (*D. guadalupensis*).
- HOWELL, JOHN T. New from Europe. Leaflets West. Bot. 3(7): 163. July 21, 1942. 450 L47
Tillaea muscosa, first record.
- MULLER, CORNELIUS H. The location of Walther Schumann's Mexican collecting locality, "Jaraí." *Bartonia* 21: 8-10. May 27, 1942. 451 P532
In Guanajuato near México, D. F.
- REID, ELBERT H. Important plants on national forest ranges of eastern Oregon and eastern Washington. U. S. Forest Serv. Range Res. Rpt. no. 1, 64 pp. Portland, Oreg., May 1942. 1.9 P2R16
- ROGERS, H. THOMAS. A botanical survey of the upper Columbia river region, Washington. Wash. State Col. Res. Studies 10(2): 99-140, illus. (map). June 1942. Bibliography. 500 W279
- SCHMID, EMIL. Vegetationsgürtel und biocoenose. Schweiz. Bot. Gesell. Ber. 51: 461-474. Oct. 1941. 451 Sch9
- SHREVE, FORREST. Grassland and related vegetation in northern Mexico. *Madroño* 6(6): 190-198, pl. 25. Apr. 1942. Literature cited. 450 M26
- SVENSON, HENRY K. The local flora section (native wild flower garden) of the Brooklyn botanic garden. Brooklyn Bot. Gard. Rec. 31(3): 183-209, illus. (incl. maps). July 1942. 451 B79R
Nomenclature and references.
- VEGETATION on Midway. *Science*, v. 96, no. 2482, Sup., p. 11. July 24, 1942. 470 Sci2
- WALLACE, J. G. Malta. *Gard. Chron.* 111(2896): 271. June 27, 1942. 80 G162
- WERDERMANN, ERICH. Brazil and its columnar cacti. Translated by R. W. Kelly. (In the wastes of Pernambuco). *Cactus and Succulent Jour.* v. 14, no. 7, Sup. pp. 9-24, illus. July 1942. 451 C11
- WEST, JAMES. Letters from South America. *Calif. Hort. Soc. Jour.* 3(2): 94-100; (3): 151-160. Apr., July 1942. 81 C1293
- WHERRY, EDGAR T. *Euphrasia* in Pennsylvania. *Bartonia* 21: 57. May 27, 1942. 451 P532
E. condensata found north of Notch Village about 7 miles northwest of Porters Lake, northeastern Pennsylvania.

ECONOMIC BOTANY

- ABHYANKAR, V. S., and NARAYANA, NUGGEHALI. A preliminary note on the preparation of syrup from Mahua flowers. Poona Agr. Col. Mag. 33(4): 168-172. Feb. 1942. References. 22 P79
- BEARDSLEY, GRETCHEN. Notes on Cree medicines, based on a collection made by I. Cowie in 1892. Mich. Acad. Sci. Papers 27(1941): 483-496. Mar. 1942. Bibliography. 500 M582
- DALKE, PAUL D., CLARK, W. K., JR., and KORSCHGEN, LEROY J. Food habit trends of the wild turkey in Missouri as determined by dropping analysis. Jour. Wildlife Mangt. 6: 237-243. July 1942. Literature cited. 410 J827
- HENDRICKSON, RUTH M., and JOHNSON, FRANCES M. Herbs and their culture. Conn. (Storrs) Agr. Expt. Sta. Cir. 149: 55-71, illus. Storrs, Nov. 1941. References. 100 C76St
- HIGBEE, EDWARD C. Something about spices. U. S. Off. Foreign Agr. Relat. Agr. Amer. 2(8): 151-153. Aug. 1942. 1 F752A
- LAHIRI, J. K., and GHOSH, SUDHAMOY. Chemical examination of the seeds of Barringtonia acutangula Gaertn. Amer. Pharm. Assoc. Jour. 31(7): 193-194. July 1942. References. 396.9 Am33J
- Toxic principle is an amorphous acid saponin; both fish poison and drug plant.
- LYNCH, S. JOHN, and WOLFE, HERBERT S. Future may see mahogany forests in Florida. Fla. Grower 50(8): 6, 11, illus. Aug. 1942. 80 F6622
- Plantings by Experiment station at Homestead, Dade county, of Rhodesian mahogany (Khaya nyasica).
- McMORRAN, H. G. If coffee supplies fail...what then? Spice Mill 65(8): 12-13, illus. Aug. 1942. 389.8 Sp4
- Chicory as substitute.
- MEHL, CLAYTON, D. Interesting sources of natural dyestuffs. (cont.) Textile Colorist 64(763): 332-336. July 1942. 306.8 T31
- The economic importance of the legume plants of the Southwest and Mexico. Possible substitutes for cutch from India and Burma. Possible new sources of nutgalls and valonia.
- OAKMOSS, a perfume raw material. Chemurg. Digest 1(14): 107-108, illus. July 31, 1942. 381 N213Ne
- The lichen Evernia, in particular E. vulpina.
- RICH, HERBERT. Die-back of safflower in Texas. Plant Dis. Rptr. 26(12/13): 282. July 1/15, 1942. 1.9 P69P
- STEYN, DOUW G., and WALT, S. J. van der. Recent investigations into the toxicity of known and unknown poisonous plants in the Union of South Africa. XI. Onderstepoort Jour. Vet. Sci. and Anim. Indus. 16(1/2): 121-147, illus. Jan./Apr. 1941. References. 41.8 On1

PALEOBOTANY

- HARRIS, TOM M. On two species of hepatics of the Yorkshire Jurassic flora. Ann. and Mag. Nat. Hist. XI, 9(54): 393-401, illus. June 1942. Literature. 410 An77
- Hepaticites arcuatus, n. comb., H. wonnacotti, n. sp.
- STEELE, WILLIAM C. Pleistocene mosses from the Aftonian interglacial deposits of Iowa. Mich. Acad. Sci. Papers 27(1941): 75-104, v. pl. Mar. 1942. Literature cited. 500 M582
- Calliargon aftonianum, C. hansenae, C. kayianum, Drepanocladus apiculatus n. spp.

TECHNIQUE

- CARTER, WALTHER. A method of growing plants in water vapor to facilitate examination of roots. *Phytopathology* 32(7): 623-625, illus. July 1942. 464.8 P56
- CRIST, JOHN W. Tetrachoric correlation for horticultural research. *Amer. Soc. Hort. Sci. Proc.* 40: 549-551. May 1942. Literature cited. 81 Sol2
- LUDBROOK, WALLIS V. The use of a livestock vaccinating syringe for large-scale plant inoculations. *Austral. Inst. Agr. Sci. Jour.* 8(2): 75-76, illus. June 1942. 23 Au74
- NELSON, RICHARD C. A grating spectrograph for mineral nutrition studies. *Plant Physiology* 17(3): 492-496, illus. July 1942. Literature cited. 450 P692
- PREBUS, ALBERT F. The electron microscope. *Ohio State Univ. Engin. Expt. Sta. News* 14(3): 6-32, illus. June 1942. Bibliography. 290.9 Oh3En
- SIDERIS, CHRISTOS P. An atmospheric halatometer. *Plant Physiol.* 17(3): 497-499, illus. July 1942. Literature cited. 450 P692
An apparatus for the collection of salt particles from the air.
- WESTER, ROBERT E., and MAGRUDER, ROY. A method of photographing plants in the field. *Amer. Soc. Hort. Sci. Proc.* 40: 380-382, illus. May 1942. 81 Sol2

CHEMISTRY

- ANDERSON, A. J. Molybdenum deficiency on a South Australian ironstone. *Austral. Inst. Agr. Sci. Jour.* 8(2): 73-75, illus. June 1942. 23 Au74
- BECK, WILLIAM A. Effect of drought on the production of plant pigments. *Plant Physiol.* 17(3): 487-491. July 1942. Literature cited. 450 P692
A minor factor.
- BERTRAMSON, B. R. Phosphorus analysis of plant material. *Plant Physiol.* 17(3): 447-454. July 1942. Literature cited. 450 P692
- BIRKINSHAW, JOHN H., CHAMBERS, ANGUS R., and RAISTRICK, HAROLD. Studies in the biochemistry of micro-organisms. 70. Stipitatic acid, $C_8H_6O_5$, a metabolic product of *Penicillium stipitatum* Thom. *Biochem. Jour.* 36(1/2): 242-251. Feb. 1942. References. 382 B52
- EYSTER, HENRY C. Enzyme action. *Science* 96(2484): 140-141. Aug. 7, 1942. 470 Sci2
Enzyme action is fundamentally an adsorptive process.
- FOLKERS, KARL, and SHAVEL, JOHN, JR. Erythrina alkaloids. XII. Chromatographic analyses of erysodine, erysovine and "erysocine" and technique for preparative isolation. *Amer. Chem. Soc. Jour.* 64(8): 1892-1896. Aug. 1942. 381 Am33J
- GEISSMAN, T. A. Anthochlor pigments. III. The pigments of *Cosmos sulphureus*. *Amer. Chem. Soc. Jour.* 64(7): 1704-1707. July 1942. Bibliographical footnotes. 381 Am33J
- GREATHOUSE, GLENN A., KLEMME, DOROTHEA E., and BARKER, HENRY D. Determining the deterioration of cellulose caused by fungi. *Indus. and Engin. Chem. Analyt. Ed.* 14(8): 614-620, illus. Aug. 15, 1942. Literature cited. 381 J825A
- HAAGEN-SMIT, A. J., LEECH, W. D., and BERGREN, WILLIAM R. The estimation, isolation, and identification of auxins in plant materials. *Amer. Jour. Bot.* 29(7): 500-506. July 1942. Literature cited. 450 Am36

- McNAIR, JAMES B. Some chemical properties of Eucalyptus in relation to their evolutionary status. *Madroño* 6(6): 181-190. Apr. 1942. Literature cited. 450 M26
- MADHAVA RAO, A., RAMACHANDRAN, K., and SREENIVASA RAU, Y. VENKANNA. Vitamin B₁ in Indian foodstuffs (cereals, millets and pulses). *Current Sci. [India]* 11(4): 149. Apr. 1942. 475 Sci23
- MANSKE, RICHARD H. F., MARION, LEO, and LEDINGHAM, ARCHIE E. The alkaloids of papaveraceous plants. XXXIV. *Hunnemannia fumariaefolia* Sweet and the constitution of a new alkaloid, hunnemanine. *Amer. Chem. Soc. Jour.* 64(7): 1659-1661. July 1942. 381 Am33J
- MARION, LEO, and MANSKE, RICHARD H. F. The alkaloids of *Lycopodium* species. II. Some degradation experiments with lycopodine. *Canad. Jour. Res. Sect. B, Chem. Sci.* 20(7): 153-156. July 1942. References. 470 C16B
- SCHAEER, EUGEN. Obst und vitamine. *Landw. Jahrb. der Schweiz* 56(3): 289-314. 1942. Literature cited. 17 L23
- SCHLITTLER, E. Coumingidin, ein neues krystallisiertes alkaloid aus *Erythrophleum couminga*. *Helvetica Chim. Acta* 24: 319E-332E. 1941. Bibliographical footnotes. 385 H36
- TEPLY, L. J., STRONG, F. M., and ELVEHJEM, CONRAD A. Nicotinic acid, pantothenic acid and pyridoxine in wheat and wheat products. *Jour. Nutr.* 24(2): 167-174. Aug. 10, 1942. Literature cited. 389.8 J82
- TODD, FRANK E., and BRETHERICK, ORMOND. The composition of pollens. *Jour. Econ. Ent.* 35(3): 312-317. June 1942. Literature cited. 421 J822
- TODHUNTER, E. NIEGE. The ascorbic acid (vitamin C) content of rhubarb. *Amer. Soc. Hort. Sci. Proc.* 40: 437-440. May 1942. Literature cited. 81 Sol2
- ZECHMEISTER, LASZLO, and SCHROEDER, W. A. The fruit of *Pyracantha angustifolia*: a practical source of pro-gamma-carotene and pro-lycopene. *Jour. Biol. Chem.* 144(2): 315-320. July 1942. Bibliography. 381 J824
- ZECHMEISTER, LASZLO, and ESCUE, R. B. Isolation of prolycopene and pro-gamma-carotene from *Evonymus fortunei*. *Jour. Biol. Chem.* 144(2): 321-323. July 1942. Bibliography. 381 J824
- ZSCHEILE, FREDERICK P., WHITE, JONATHAN W., JR., BEADLE, B. W., and ROACH, J. R. The preparation and absorption spectra of five pure carotenoid pigments. *Plant Physiol.* 17(3): 331-346. July 1942. Literature cited. 450 P692
- Studies on the carotenoids I: The first of a group of papers on their spectrometry and chemistry.

GENETICS AND BREEDING

- BRIGGS, FRED N. Breeding disease-resistant crops. *Science* 96(2481): 60. July 17, 1942. 470 Sci2
- SKIRM, GEORGE W. Embryo culturing as an aid to plant breeding. *Jour. Hered.* 33(6): 211-215, illus. June 1942. Literature. 442.8 Am3
- Experiments with hybrids of *Prunus* and *Lilium*.

PHYSIOLOGY AND MORPHOLOGY

- BECK, WILLIAM A. The relative osmotic value of enlarging cells. *Inst. Divi Thomae Studies (Cincinnati)* 3(1): 1-8. Nov. 1941. Literature cited. 470 In7

- BECK, WILLIAM A., LONSING, ALFRED, and ANDRUS, M. BASILIA. Solute production in growing cortical cells of *Helianthus annuus* seedlings. Inst. Divi Thomae Studies (Cincinnati) 3(1): 113-128. Nov. 1941. Literature cited. 470 In7
- BECK, WILLIAM A., and JOLY, RUSSELL A. Studies in pollen tube culture. Inst. Divi Thomae Studies (Cincinnati) 3(1): 81-101. Nov. 1941. Literature cited. 470 In7
- BIEBEL, JOSEPH P. Some effects of radiant energy in relation to etiolation. Plant Physiol. 17(3): 377-396, illus. July 1942. Literature cited. 450 P692
- Experiments mainly with *Phaseolus vulgaris*, variety red kidney bean.
- BRUMFIELD, ROBERT T. Cell growth and division in living root meristems. Amer. Jour. Bot. 29(7): 533-543, illus. July 1942. Literature cited. 450 Am36
- Phleum pratense* used as experimental material.
- BURKHARDT, ALBERT. Untersuchungen über die wirksamkeit des oestrone auf pflanzen bei verschiedener ernährung. Schweiz. Bot. Gesell. Ber. 51: 363-394, illus. Oct. 1941. References. 451 Sch9
- CAVE, MARION S. Development of the female gametophyte in *Erythronium helenae* and *Erythronium tuolumnense*. Madroño 6(6): 177-181, illus., pl. 20-24. Apr. 1942. Literature cited. 450 M26
- CLAYPOOL, LAWRENCE L., and KEEFER, R. M. A colorimetric method for CO₂ determination in respiration studies. Amer. Soc. Hort. Sci. Proc. 40: 177-186, illus. May 1942. Literature cited. 81 Sol2
- COLLAER, PAUL. Le rôle de la lumière dans l'assimilation chlorophyllienne. III. Schweiz. Bot. Gesell. Ber. 51: 348-362, illus. Oct. 1941. References. 451 Sch9
- COOK, ELTON S., and CRONIN, ANN G. Comparative growth studies on a proliferation-promoting extract from ultraviolet injured yeast cells, known bios components and amino acids. Inst. Divi Thomae Studies (Cincinnati) 3(1): 205-222. Nov. 1941. Bibliography. 470 In7
- COOK, ELTON S., and CRONIN, ANN G. Proliferation-promoting activities of extracts from ultraviolet injured yeast cells and of bios components. Nature (London) 150(3794): 93-94. July 18, 1942. 472 N21
- COOPER, GEORGE O. Development of the ovule and the formation of the seed in *Plantago lanceolata*. Amer. Jour. Bot. 29(7): 577-581, illus. July 1942. Literature cited. 450 Am36
- DANIKER, ALBERT U. Die tendenz zur fruchtbildung bei einer gymnosperme, *Dacrydium araucarioides* Brongniart et Gris. Schweiz Bot. Gesell. Ber. 51: 475-478, illus. Oct. 1941. 451 Sch9
- DOWNIE, DOROTHY G. Notes on the germination of some British orchids. Bot. Soc. Edinb. Trans. and Proc. 33(2): 94-103. 1941. References. 451 Ed4T
- FREY-WYSSLING, ALBERT. Die guttation als allgemeine erscheinung. Schweiz. Bot. Gesell. Ber. 51: 321-325. Oct. 1941. References. 451 Sch9
- GATES, REGINALD R. Nucleoli and phylogeny. Collecting Net 17(2): 21-26. July 18, 1942. 442.8 C68
- HENRICI, MARGUERITE. The transpiration of different plant associations in South Africa. I. Transpiration of karoo bushes. So. Africa. Dept. Agr. and Forestry. Sci. Bul. 185, 70 pp., diags. Pretoria, 1940. Literature cited. 24 So84S

- HINER, LOWELL D., and MERRILL, KENNETH J. A histological study of *Eriodictyon californicum*. Amer. Pharm. Assoc. Jour. 31(7): 209-212, illus. July 1942. References. 396.9 Am33J
- HÖAGLAND, DENNIS R., and BROYER, THEODORE C. Accumulation of salt and permeability in plant cells. Jour. Gen. Physiol. 25(6): 865-880. July 20, 1942. Bibliographical footnotes. 447.8 J822
- Experiments with excised barley roots and *Nitella* cells.
- HUXLEY, JULIAN. Degeneration and relict adaptation. Nature (London) 149(3790): 687-688. June 20, 1942. 472 N21
- JOHNSON, DOROTHY A. Chromosomes of *Jamesianthus*. Rhodora 44(524): 280, illus. Aug. 1942. 450 R34
- J. alabamensis*.
- KAINS, MAURICE G., and McQUESTEN, LEAVITT M. Propagation of plants. Rev. and enl. ed., 639 pp., illus. N. Y., O. Judd, 1942. 90.11 K12
- KOBLET, RUDOLF. Die beeinflussung des pflanzenwachstums durch saatgutbehandlung. Landw. Jahrb. Schweiz 56(3): 278-288. 1942. Literature cited. 17 L23
- Sammelreferat. Iarovization and use of growth substances.
- MATTHEWS, JAMES R. Floral morphology and its bearing on the classification of angiosperms. Bot. Soc. Edinb. Trans. and Proc. 33(2): 69-82. 1941. References. 451 Ed4T
- MAURIZIO, ANNA. Pollenanalytische beobachtungen. 6-9. Schweiz. Bot. Gesell. Ber. 51: 77-95, illus. Oct. 1941. References. 451 Sch9
6. Primulaceen-pollen in Schweizer-Berghonigen. 7. *Hippocrepis comosa* L., eine charakteristische pollenform in Berghonigen. 8. Neue befunde von pollenkörnern des liliaceen-typus in Schweizer Honigen. 9. Nektarproduktion in gesunden und von *Ustilago violacea* befallenen blüten von *Melandrium album* (Miller) Garcke.
- MITCHELL, JOHN W., and RICE, RUBY R. Plant-growth regulators. U. S. Dept. Agr. Misc. Pub. 495, 75 pp., illus. 1942. Literature cited. 1 Ag84M
- Extensive tables with plants listed by scientific name, on the use of growth-regulating chemicals in the rooting of cuttings.
- MONTERMOSO, JUAN C., and DAVIS, ALVA R. Preliminary investigation of the rhythmic fluctuations in transpiration under constant environmental conditions. Plant Physiol. 17(3): 473-480. July 1942. Literature cited. 450 P692
- Experiments with rooted coleus leaves and cuttings.
- MURNEEK, ANDREW E., and WITTWER, S. H. Relation of sexual reproduction to development of horticultural plants. I-II. Amer. Soc. Hort. Sci. Proc. 40: 201-204, 205-208. May 1942. Literature cited. 81 Sol2
- S. H. Wittwer joint author I, main author II.
- I. General effects of flower and fruit production. II. Physiological influence of fertilization (gametic union). (Cucumbers, peppers and cherries).
- PANTULU, J. V. Chromosome numbers of some Caesalpinaceae. Current Sci. [India] 11(4): 152-153, illus. Apr. 1942. 475 Sci23
- Eight species in *Bauhinia*, *Parkinsonia*, *Caesalpinia* and *Cassia*.
- RECENT work on germination. Nature (London) 149(3789): 658-659, illus. June 13, 1942. 472 N21
- Discussion before Linnean society, opened by M. A. H. Tincker. J. Ramsbottom exhibited seedlings of *Albizzia julibrissin* & *Nelumbium*, the former from seeds collected in 1793 and the latter from seeds from 200 to 400 years old.

- SELLEI, JOSEPH, SELLEI, HELEN, MAYER, A., and WENT, FRITS W. Effects of fluorescein on plant growth. Amer. Jour. Bot. 29(7): 513-522, illus. July 1942. Literature cited. 450 Am36
- SKOOG, FOLKE, SCHNEIDER, CHARLES L., and MALAN, PETER. Interactions of auxins in growth and inhibition. Amer. Jour. Bot. 29(7): 568-576. July 1942. Literature cited. 450 Am36
- SMALL, JAMES. Calamus. A pocket-lens study. Food 11(130): 195, illus. July 1942. 389.8 F738
Acorus calamus.
- SMITH, STANLEY G. Polarization and progression in pairing. I. Interlocking of bivalents in Trillium erectum L. Canad. Jour. Res. Sect. C, Bot. Sci. 20(7): 358-388, illus. July 1942. References. 470 G160
E. R. Boothroyd, joint author.
- STOUGHTON, RAYMOND H. Soilless cultivation. Agriculture (Jour. Min. Agr. Gt. Brit.) 49(1): 25-29, pl. June 1942. References. 10 G79J
A review of recent progress.
- SWEENEY, BEATRICE M., and THIMANN, KENNETH V. The effect of auxins on protoplasmic streaming. III. Jour. Gen. Physiol. 25(6): 841-854, illus. July 20, 1942. References. 447.8 J822
- THOMAS, WALTER, MACK, WARREN B., and COTTON, ROBERT H. Foliar diagnosis in relation to irrigation. Amer. Soc. Hort. Sci. Proc. 40: 531-535. May 1942. Literature cited. 81 Sol2
Experiments with snap beans.
- WALLACE, THOMAS. Deficiencies of mineral elements in crops. Worcestershire Co. Council Quart. Agr. Chron. 10(3): 117, 119, 121, 123-125, 127-128. May 1942. 10 W892
- WU, SU-HSUEN. Cytological studies on Spironema fragrans Lindl. and certain other Commelinaceae. Mich. Acad. Sci. Papers 27(1941): 117-135, x pl. Mar. 1942. Literature cited. 500 M582
- ZIMMERMAN, PERCY W., and HITCHCOCK, ALBERT E. Substituted phenoxy and benzoic acid growth substances and the relation of structure to physiological activity. Boyce Thompson Inst. Contrib. 12(5): 321-343, illus. Apr./June 1942. Literature cited. 451 B69

PATHOLOGY

(For diseases of a particular plant see under crop subheads)

- AMERICAN PHYTOPATHOLOGICAL SOCIETY - SOUTHERN DIVISION. Report of the 1942 annual meeting of the southern division of the American phytopathological society. [With abstracts]. Phytopath. 32(7): 647-651. July 1942. 464.8 P56
- ARIZONA AGRICULTURAL EXPERIMENT STATION. DEPT. OF PLANT PATHOLOGY. [Report] plant pathology. Ariz. Agr. Expt. Sta. Ann. Rpt. 52(1940/41): 79-87, illus. Tucson, 1942. 100 Ar4
- BLUMER, SAMUEL. Weitere untersuchungen über das auftreten von teilinfektionen beim antherenbrand von Melandrium album. Schweiz. Bot. Gesell. Ber. 51: 395-400. Oct. 1941. Literature cited. 451 Sch9
- COHEN, SEYMOUR S. The isolation and crystallization of plant viruses and other protein macro molecules by means of hydrophilic colloids. Jour. Biol. Chem. 144(2): 353-362, pl. July 1942. Bibliography. 381 J824

- COHEN, SEYMOUR S., and STANLEY, WENDELL M. The molecular size and shape of the nucleic acid of tobacco mosaic virus. *Jour. Biol. Chem.* 144 (3): 589-598. Aug. 1942. Bibliography. 381 J824
- CONNERS, IBRA L. Twenty-first annual report of the Canadian plant disease survey, 1941. *Canad. Div. Bot. Plant Dis. Survey Ann. Rpt.* 21st, 1941, 102 pp. Ottawa, Aug. 3, 1942. 464.9 C16S
- FENNE, S. B. Two cercosporas newly reported in the United States. *Plant Dis. Rptr.* 26(12/13): 280. July 15, 1942. 1.9 P69P
- FRAMPTON, VERNON L. A quantitative method for assay of tobacco-mosaic virus protein. *Phytopath.* 32(7): 618-622. July 1942. 464.8 P56
- HERRICK, JAMES A. A simple technique for aseptic handling of media. *Phytopath.* 32(7): 636-637. July 1942. 464.8 P56
- In use where equipment is very limited.
- JOHNSON, JAMES, tr. 1. Concerning the mosaic disease of tobacco, By Adolf Mayer. 2. Concerning the mosaic disease of the tobacco plant. By Dmitrii Ivanowski. 3. Concerning a contagium vivum fluidum as a cause of the spot-disease of tobacco leaves. By Martinus W. Beijerinck. 4. On the etiology of infectious variegation. By Erwin Baur. From German...with...biographical sketches by the translator. 62 pp., 3 pl., ports. Ithaca, American phytopathological society, 1942. (Phytopathological classics no. 7) 464.32 M45
- KNIGHT, C. A., and LAUFFER, MAX A. A comparison of the alkaline cleavage products of two strains of tobacco mosaic virus. *Jour. Biol. Chem.* 144(2): 411-417. July 1942. Bibliography. 381 J824
- LINDGREN, RALPH M. Temperature, moisture, and penetration studies of wood-staining *Ceratostomellae* in relation to their control. U. S. Dept. Agr. Tech. Bul. 807, 35 pp., 4 pl. Mar. 1942. Literature cited. 1 Ag84Te
- LINFORD, MAURICE B. The transient feeding of root-knot nematode larvae. *Phytopath.* 32(7): 580-589, illus. July 1942. Literature cited. 464.8 P56
- NEWHALL, ALLAN G., and STARK, FRANK L., JR. Chloropicrin and ethylene dichloride for root-knot nematode control. *Phytopath.* 32(7): 626-630, illus. July 1942. Literature cited. 464.8 P56
- OSTERWALDER, ADOLF. Baumimpfung? *Schweiz. Ztschr. f. Obst- Weinbau* 51(10): 221-230. May 9, 1942. 80 Sch9
- Discussion of injecting solutions for plant disease control.
- PARKER-RHODES, A. F. Studies on the mechanism of fungicidal action. II-III. *Ann. Appl. Biol.* 29(2): 126-135, 136-143, illus. May 1942. References. 442.8 An72
- II. Elements of the theory of variability. III. Sulphur.
- PEARCE, JOHN, and SPAULDING, PERLEY. Plant pathology in relation to northeastern forest wildlife cover. *Jour. Wildlife Managt.* 6(3): 194-202, pl. 14. July 1942. Literature cited. 410 J827
- PETERSON, MAURICE L. An inexpensive soil sterilizer. *Amer. Soc. Agron. Jour.* 34(7): 674-676, illus. July 1942. 4 Am34P
- REED, HOWARD S., and DUFRENOY, JEAN. Catechol aggregates in the vacuoles of cells of zinc deficient plants. *Amer. Jour. Bot.* 29(7): 544-551, illus. July 1942. Literature cited. 450 Am36
- SAKR, EL SAYED, and THOMPSON, HOMER C. Effect of infecting carrot plants with certain viruses on seedstalk development. *Plant Physiol.* 17(3): 500-502, illus. July 1942. Literature cited. 450 P692
- "All the plants treated with aster yellows formed seedstalks."

- STANLEY, WENDELL M. The concentration and purification of tobacco mosaic virus by means of the Sharples super-centrifuge. Amer. Chem. Soc. Jour. 64(8): 1804-1806. Aug. 1942. Bibliographical footnotes. 381 Am33J
- STANLEY, WENDELL M. The preparation and use of tobacco mosaic virus containing radioactive phosphorus. Jour. Gen. Physiol. 25(6): 881-890, pl. 6-7. July 20, 1942. Bibliography. 447.8 J822
- STARR, MORTIMER P., and BURKHOLDER, WALTER H. Lipolytic activity of phytopathogenic bacteria determined by means of spirit blue agar and its taxonomic significance. Phytopath. 32(7): 598-604. July 1942. Literature cited. 464.8 P56
- TISDALE, WENDELL H., and FLENNER, A. L. Derivatives of dithiocarbamate as pesticides. Du Pont de Nemours, E. I. & Co., Agr. News Letter 10(4): 82-85. July/Aug. 1942. Literature cited. 6 D92

WEEDS

- GREENHAM, C. G., and WILKINSON, T. Studies on chemical weed-killers with special reference to skeleton weed. 4. Further spray trials and toxicity investigations with a note on translocation. Austral. Council Sci. & Indus. Res. Jour. 15(2): 154-161. May 1942. References. 514 Au72J
- HARRIS, LOYD E., and HYSLOP, GEORGE R. Selective sprays for weed control in crops. Oreg. Agr. Expt. Sta. Bul. 403, 31 pp., illus. Corvallis, Feb. 1942. 100 Or3
- Combination of ammonium sulphate and Sinox (dinitro-ortho-cresylate) most successful.
- JOHANNESBURG. UNIVERSITY OF WITWATERSRAND. BOTANICAL DEPT. Annual report 1942 [Sup.] Investigation of the ecology, biology and eradication of certain species of Senecio either toxic or otherwise undesirable in veld. Summary of progress, 1941/42. 6 pp., processed. 1942. 60.19 J59
- MOSELEY, EDWIN L. The plant that causes milk sickness. In his Milk sickness caused by white snakeroot, pp. 146-150, pl., processed. Bowling Green, Ohio, The author, 1941. 448 M852

CROP PLANTS

(Includes Diseases)

GENERAL

- SIND (INDIA) DEPT. OF AGRICULTURE. Annual report for the year 1939-40. 208 pp. [Karachi] 1942. 22 Si6
- By K. I. Thadani.
- Includes agronomic, botanical and pathological investigations of cotton, wheat, rice, jowar and Bajri, oil-seeds and legumes, fodder crops, sugar cane, potatoes, onions, garlic, rabi spices, chillies, tobacco, fruit crops.

APPLE

- ALLEN, FRANK W. Carbon dioxide storage for Yellow Newtown apples. Amer. Soc. Hort. Sci. Proc. 40: 193-200. May 1942. Literature. 81 Sol2
- BAKER, CLARENCE E. Russetting of apples, nature's means of healing injuries. Amer. Fruit Grower 62(8): 6-7, 9, 11, illus. Aug. 1942. 80 G85

- BATJER, LAWRENCE P., and HALLER, MARK H. Fruit maturity and growth of apple trees as affected by boron content. Amer. Soc. Hort. Sci. Proc. 40: 29-30. May 1942. 81 Sol2
Preliminary report.
- BATJER, LAWRENCE P. Temperature in relation to effectiveness of pre-harvest drop sprays on apples. Amer. Soc. Hort. Sci. Proc. 40: 45-48. May 1942. 81 Sol2
- BOYNTON, DAMON, and CAIN, J. C. A survey of the relationships between leaf nitrogen, fruit color, leaf color, and per cent of full crop in some New York McIntosh apple orchards, 1941. Amer. Soc. Hort. Sci. Proc. 40: 19-22. May 1942. Literature cited. 81 Sol2
- BURKHOLDER, CECIL L., and McCOWN, MONROE. 1941 experiences with sprays to delay fruit drop. Ind. Hort. Soc. Trans. 81(1941): 13-19.
[1942]
- BURRELL, ARTHUR B., CAIN, J. C., and BRINKERHOFF, L. A. Response of apple trees to potash in the Champlain Valley. II. A third-year growth response and a first-year reduction in leaf scorch. Amer. Soc. Hort. Sci. Proc. 40: 8-12. May 1942. Literature cited.
81 Sol2
- CHANDLER, FREDERICK B., and MASON, I. C. Russetting of Golden Delicious apples. Amer. Soc. Hort. Sci. Proc. 40: 120-122. May 1942. Literature cited. 81 Sol2
- CHRISTOPHER, EVERETT P. A comparison of lime sulphur and flotation sulphur spray on apple trees. Amer. Soc. Hort. Sci. Proc. 40: 63-67, illus. May 1942. Literature cited. 81 Sol2
Flotation sulphur paste the better.
- COLE, C. E., and McALPIN, D. M. Blossom-killing sprays for apple trees. Victoria. Dept. Agr. Jour. 40(7): 359-362, illus. July 1942. 23 V66J
- COOLEY, JACQUELIN S. Wound dressings on apple trees. U. S. Dept. Agr. Cir. 656, 18 pp., illus. Aug. 1942. Literature cited. 1 Ag84C
- FISHER, D. V. Mealiness and quality in Delicious apples as affected by certain conditions and storage techniques. Amer. Soc. Hort. Sci. Proc. 40: 128-132. May 1942. 81 Sol2
- FISHER, DURWARD F. Handling apples from tree to table. U. S. Dept. Agr. Cir. 659, 39 pp., illus. Aug. 1942. Literature cited. 1 Ag84C
- FRENCH, ARTHUR P., and SOUTHWICK, LAWRENCE. Further observations on a narrow-leaf variation of the apple. Amer. Soc. Hort. Sci. Proc. 40: 245-247, illus. May 1942. Literature cited. 81 Sol2
- GRIGGS, W. H., and SCHRADER, ALBERT L. Comparison of certain varieties as pollenizers for the Delicious apple. Amer. Soc. Hort. Sci. Proc. 40: 87-90. May 1942. Literature cited. 81 Sol2
- HALLER, MARK H. Days from bloom as an index of maturity for apples. Amer. Soc. Hort. Sci. Proc. 40: 141-145. May 1942. Literature cited. 81 Sol2
- HARLEY, CLAYTON P. Seasonal growth and dry matter accumulation in Winesap apples. Amer. Soc. Hort. Sci. Proc. 40: 165-168. May 1942. Literature cited. 81 Sol2
- HARTMAN, FRED O., and HOWLETT, FREEMAN S. An analysis of the fruit characteristics of seedlings of Rome Beauty, Gallia Beauty, and Golden Delicious parentage. Amer. Soc. Hort. Sci. Proc. 40: 241-244. May 1942. Literature cited. 81 Sol2

- HEINICKE, ARTHUR J., and REUTHER, WALTER. Influence of boron application on preharvest drop of McIntosh apples. Amer. Soc. Hort. Sci. Proc. 40: 31-34. May 1942. Literature cited. 81 Sol2
- HEWETSON, F. N. Growth and yield of Steele red apple trees as influenced by the use of various double-worked interstocks. Amer. Soc. Hort. Sci. Proc. 40: 264-268. May 1942. Literature cited. 81 Sol2
- HILDEBRAND, EARL M., and HOUGH, LEON F. Pollenicides as supplements for bactericides in blossom blight control. Amer. Soc. Hort. Sci. Proc. 40: 91-94. May 1942. Literature cited. 81 Sol2
- Use of Elgetol and Nitrokleenup.
- HITCHCOCK, ALBERT E., and ZIMMERMAN, PERCY W. Root-inducing substances effective on apple cuttings taken in May. Amer. Soc. Hort. Sci. Proc. 40: 292-297, illus. May 1942. Literature cited. 81 Sol2
- HOFFMAN, MELVIN B., EDGERTON, L. J., and VAN DOREN, ARCHIE. Some results in controlling the preharvest drop of apples. Amer. Soc. Hort. Sci. Proc. 40: 35-38. May 1942. Literature cited. 81 Sol2
- HOLST, MRS. MONTEREY L. Rhode Island's own apples. Gard. Club Amer. Bul. 8(2): 16-20. Aug. 1942. Bibliography. 90.32 G16
- Five varieties originated or introduced by Rhode Island.
- LANTZ, HARVEY L., and PICKETT, BETHEL S. Apple breeding: variation within and between progenies of Delicious with respect to freezing injury due to the November freeze of 1940. Amer. Soc. Hort. Sci. Proc. 40: 237-240. May 1942. 81 Sol2
- MURPHY, LYLE M. Further studies with preharvest sprayed McIntosh apples. Amer. Soc. Hort. Sci. Proc. 40: 42-44. May 1942. Literature cited. 81 Sol2
- PICKETT, BETHEL S., and LANTZ, HARVEY L. Apple varieties: behavior of two hundred varieties following the freeze of November, 1940. Amer. Soc. Hort. Sci. Proc. 40: 212-214. May 1942. Literature cited. 81 Sol2
- PLAGGE, HOMER H., and FISHER, D. V. Pectic changes in Jonathan apples as a measure of ripening under differential carbon dioxide treatments. Amer. Soc. Hort. Sci. Proc. 40: 169-171. May 1942. Literature cited. 81 Sol2
- ST. JOHN, JAMES L., OVERHOLSER, EARLE L., and OVERLY, FRED L. Effect of orchard fertilizer applications on the composition of apples. Plant Physiol. 17(3): 435-446. July 1942. Literature cited. 450 P692
- SCHNEIDER, G. W., and ENZIE, J. V. Spraying for control of preharvest drop of apples. N. Mex. Agr. Expt. Sta. Bul. 294, 15 pp. State College, July 1942. Literature cited. 100 M465
- SHAW, JACOB K. Trunk diameters of young apple trees on clonal stocks. Amer. Soc. Hort. Sci. Proc. 40: 269-274, illus. May 1942. Literature cited. 81 Sol2
- SMOCK, ROBERT M. The influence of one lot of apple fruits on another. Amer. Soc. Hort. Sci. Proc. 40: 187-192. May 1942. Literature cited. 81 Sol2
- SOUTHWICK, LAWRENCE. Further studies on the control of preharvest drop of McIntosh. Amer. Soc. Hort. Sci. Proc. 40: 39-41. May 1942. Literature cited. 81 Sol2
- STRUCKMEYER, BURDEEN E., and ROBERTS, RAY H. Investigations on the time of blossom induction in Wealthy apple trees. Amer. Soc. Hort. Sci. Proc. 40: 113-119, illus. May 1942. Literature cited. 81 Sol2

- WILKINSON, E. H. Dieback and canker of apple branches caused by a *Gloeosporium* sp. Gard. Chron. 111(2896): 269, illus., (p. 271 also) June 27, 1942. 80 G162

BLUEBERRY

- CHANDLER, F. B., and MASON, I. C. The effect of mulch on soil moisture, soil temperature, and growth of blueberry plants. Amer. Soc. Hort. Sci. Proc. 40: 335-337. May 1942. Literature cited. 81 Sol2
- CLARK, JOY H., and GILBERT, SEYMOUR G. Selection of criterion leaves for the identification of blueberry varieties. Amer. Soc. Hort. Sci. Proc. 40: 347-351. May 1942. Literature cited. 81 Sol2
- JOHNSTON, STANLEY. Observations on the inheritance of horticulturally important characteristics in the highbush blueberry. Amer. Soc. Hort. Sci. Proc. 40: 352-356. May 1942. 81 Sol2
- O'ROURKE, FRANCIS L. The influence of blossom buds on rooting of hardwood cuttings of blueberry. Amer. Soc. Hort. Sci. Proc. 40: 332-334. May 1942. Literature cited. 81 Sol2
- PERLMUTTER, FRANK, and DARROW, GEORGE M. Effect of soil media, photoperiod and nitrogenous fertilizer on the growth of blueberry seedlings. Amer. Soc. Hort. Sci. Proc. 40: 341-346, illus. May 1942. Literature cited. 81 Sol2
- SAVAGE, EARL F., and DARROW, GEORGE M. Growth response of blueberries under clean cultivation and various kinds of mulch materials. Amer. Soc. Hort. Sci. Proc. 40: 338-340. May 1942. 81 Sol2

CEREALS

- ADAIR, ETHEL O. Arkansas oat hybrid shows great promise. South. Seedsman 5(8): 7, 31, illus. Aug. 1942. 61.8 So8
- ANDERSON, DEAN C., McHONEY, LEON L., and POWELL, ROBERT E. 1941 report of the yield trials with corn hybrids and varieties in Missouri. Mo. Agr. Col. Ext. Manual 24, 23 pp., map. Columbia, Feb. 1942. 275.29 M69Ma
- ATKINS, IRVIN M., and MANGELSDORF, PAUL C. The isolation of isogenic lines as a means of measuring the effects of awns and other characters in small grains. Amer. Soc. Agron. Jour. 34(7): 667-668. July 1942. 4 Am34P
- In wheat.
- BAYFIELD, E. G., and WEST, GLENN A. Baking tests and the evaluation of new wheats. Cereal Chem. 19(4): 493-507. July 1942. Literature cited. 59.8 C33
- BAYLIS, G. T. S. Viability of dusted wheat after storage. New Zeal. Jour. Sci. and Technol. 23(3A): 126A-130A. Oct. 1941. References. 514 N48
- BEVER, WAYNE M. A nonpathogenic buff-colored barley smut. Phytopath. 32(7): 637-639, illus. July 1942. Bibliographical footnotes. 464.8 P56
- BLANK, FRITZ, and FREY-WYSSLING, ALBERT. Protoplasmawachstum und stickstoffwanderung in der koleoptile von Zea mays. Schweiz. Bot. Gesell. Ber. 51: 116-142. Oct. 1941. References. 451 Sch9
- BURR, H. S. Electrical correlates of growth in corn roots. Yale Jour. Biol. and Med. 14(6): 581-588, illus. July 1942. References. 448.8 Yal

- CLARK, JACOB A., and BAYLES, BURTON B. Classification of wheat varieties grown in the United States in 1939. U. S. Dept. Agr. Tech. Bul. 795, 146 pp., illus. (incl. maps), 41 pl. June 1942. Literature cited. 1 Ag84Te
Supersedes Dept. Bul. 1074 and Tech. Bul. 459.
- COFFMAN, FRANKLIN A. Survival of oats grown in winterhardiness nurseries, 1937 to 1941. Amer. Soc. Agron. Jour. 34(7): 651-658. July 1942. Literature cited. 4 Am34P
- GAUCH, HUGH G., and EATON, FRANK M. Effect of saline substrate on hourly levels of carbohydrates and inorganic constituents of barley plants. Plant Physiol. 17(3): 347-365, illus. July 1942. Literature cited. 450 P692
- HABER, ERNEST S., and GAESSLER, W. G. Sugar content of sweet corn pollen and kernels of inbred and hybrid strains susceptible to tassel infestation by aphids. Amer. Soc. Hort. Sci. Proc. 40: 429-431. May 1942. Literature cited. 81 Sol2
- HELY, F. W., and LUDBROOK, WALLIS V. The effects of sodium chloride and of two manganese salts on the growth of wheat and its susceptibility to *Ophiobolus graminis* Sacc. Austral. Council Sci. & Indus. Res. Jour. 15(2): 124-128. May 1942. Literature cited. 514 Au72J
Growth increased by potassium permanganate & decreased by sodium chloride. No evidence of interaction between the fungus and any of the salts.
- HIXON, RALPH M., and SPRAGUE, GEORGE F. Waxy starch of maize and other cereals. Indus. and Engin. Chem. 34(8): 959-962, illus. Aug. 1942. Literature cited. 381 J825
A possible competitor for tapioca.
- HOUSEMAN, E. E. Methods of computing a regression of yield on weather. Iowa Agr. Expt. Sta. Res. Bul. 302, pp. 863-904. Ames, June 1942. Literature cited. 100 Io9
- KEMMERER, ARTHUR R., FRAPS, GEORGE S., and MANGELSDORF, PAUL C. The relation between the vitamin-A-active carotenoids in corn and the number of genes for yellow color. Cereal Chem. 19(4): 525-528. July 1942. Literature cited. 59.8 C33
- KERNKAMP, MILTON F. The relative effect of environmental and genetic factors on growth types of *Ustilago zeae*. Phytopath. 32(7): 554-567. July 1942. Literature cited. 464.8 P56
- LUDBROOK, WALLIS V. Root amputation experiments with wheat under dry conditions, in relation to attack by *Ophiobolus graminis* Sacc. Austral. Council Sci. & Indus. Res. Jour. 15(2): 129-134. May 1942. Literature cited. 514 Au72J
- MCCRORY, S. A. Heat and drought tolerance of sweet corn as influenced by tillers. Amer. Soc. Hort. Sci. Proc. 40: 424-428, illus. May 1942. Literature cited. 81 Sol2
- O'BRIEN, JOHN A., JR. Cytoplasmic inclusions in the glandular epithelium of the scutellum of *Triticum sativum* and *Secale cereale*. Amer. Jour. Bot. 29(7): 479-491, illus. July 1942. Literature cited. 450 Am36
- PARKER, JOHN H. Breeding grains for grass. Feedstuffs 14(31): 24. Aug. 1, 1942. 286.81 F322
- RHOADES, MARCUS M. Preferential segregation in maize. Genetics 27(4): 395-407, pl. July 1942. Literature cited. 442.8 G28

- SHANDS, H. L., DICKSON, ALLAN D., and DICKSON, JAMES G. The effect of temperature change during malting on four barley varieties. *Cereal Chem.* 19(4): 471-480. July 1942. Literature cited. 59.8 C33
- SMITH, G. F., and KERSTEN, H. Root modifications induced in *Zea mays* seedlings by irradiating dry seeds with soft X-rays. *Plant Physiol.* 17(3): 455-464, illus. July 1942. Literature cited. 450 P692
- SMITH, HORACE S. Oklahoma farm wheat improvement program. Summary report, 1937-1941, inclusive. *Okla. Agr. Expt. Sta. Misc. Pub.* MP-6. 24 pp., processed. Stillwater, May 1942. 100 Ok4
- SPOEHR, HERMAN A. The culture of albino maize. *Plant Physiol.* 17(3): 397-410, illus. July 1942. Literature cited. 450 P692
- Plants kept alive for several months by artificial organic nutrition with sucrose, showed increase in dry weight and produced inflorescences.
- STEWART, FREDERICK C., PREVOT, PIERRE, and HARRISON, J. A. Absorption and accumulation of rubidium bromide by barley plants. Localization in the root of cation accumulation and of transfer to the shoot. *Plant Physiol.* 17(3): 411-421. July 1942. Literature cited. 450 P692
- WOODWARD, ROLLO W. Linkage relationships between the allelomorphous series B, B^{mb}, B^g, and A₁a₁ factors in barley. *Amer. Soc. Agron. Jour.* 34(7): 659-661. July 1942. Bibliographical footnotes. 4 Am34P

COTTON AND OTHER FIBER PLANTS

- ARANDA JIMENEZ, JUAN B. La aclimatación del yute en el Paraguay. *Agr., Com. e Indus. Rev. Min. Agr., Com. e Indus. (Paraguay)* 2(5): 5-10, illus. Mar. 1942. 9.7 Ag8R
- BEASLEY, JAMES O. Wild species may aid in breeding better cottons. *Cotton and Cotton Oil Press* 43(16): 5-6, illus. Aug. 1, 1942. 304.8 C822
- COUCHMAN, JOHN F. A comparison of Liral Crown and Concurrent varieties of fibre flax. *Austral. Council Sci. & Indus. Res. Jour.* 15(2): 112-117. May 1942. 514 Au72J
- KALAMKAR, R. J. Pretreatment of cotton seed with ammonium sulphate. *Current Sci. [India]* 11(5): 190. May 1942. 475 Sci23
- METCALFE, C. R. Economic value of the common stinging nettle. *Nature (London)* 150(3794): 83. July 18, 1942. 472 N21
- NEAL, DAVID C. Rhizoctonia infection of cotton and symptoms accompanying the disease in plants beyond the seedling stage. *Phytopath.* 32(7): 641-642, illus. July 1942. 464.8 P56

DRUG PLANTS

- ALLEN, BRUCE. America grows her own drugs. *Pop. Sci. Monthly* 14(3): 78-81, illus. (incl. map) Sept. 1942. 470 P81
- BRECHER, RUTH, and BRECHER, EDWARD. Drug plants and war strategy. *Nature Mag.* 35(7): 345-349, 381, illus. Aug./Sept. 1942. 409.6 N214
- CUNNINGHAM, I. J. The chemistry, pharmacology, and toxicology of ergot (*Claviceps purpurea*). *New Zeal. Jour. Sci. and Technol.* 23(3A): 138A-145A. Oct. 1941. References. 514 N48
- HEPLER, JESSE R., ACKERMAN, W. T., and FRENCH, BENJAMIN. The potency of *Digitalis purpurea* cultivated in New Hampshire. *Amer. Soc. Hort. Sci. Proc.* 40: 557-561. May 1942. Literature cited. 81 S912

- JEUCH, JOSEF. Vergleichende pharmakognostische untersuchung der drogen aus den genera Arctium und Petasites unter besonderer berücksichtigung der anatomischen verhältnisse. Schweiz. Bot. Gesell. Ber. 51: 5-76, illus., pl. 1-2. Oct. 1941. References. 451 Sch9
- KELBLY, H. G. Report on botanicals and perfume plants in the United States. Drug and Cosmetic Indus. 51(1): 28-34, illus. July 1942. Bibliography. 396.8 D482
- NEILL, J. C. Ergot. New Zeal. Jour. Sci. & Tech. 23(3A): 130A-137A, illus. Oct. 1941. 514 N48
Commercial production.
- SIRCAR, NITYENDRA N. Identification of indigenous drugs, 'pushkaramula' & 'kustha'. Indian Jour. Pharm. 4(2): 57-62. Apr./June 1942. References. 396.8 In23
Saussurea lappa and Costus speciosus.
- SVENSON, HENRY K. South America's contribution in medicinal herbs. N. Y. Bot. Gard. Jour. 43(511): 174-178, illus. July 1942. 451 N48J

FRUITS AND NUTS

- AMERICAN POMOLOGICAL SOCIETY. The code of nomenclature of the American pomological society (Revision of 1941). Amer. Pomol. Soc. Proc. 57(1941): 191-194. [1942] 81 Am33
- AMERINE, MAYNARD A., and WINKLER, ALBERT J. Maturity studies with California grapes. II. The titratable acidity, pH, and organic acid content. Amer. Soc. Hort. Sci. Proc. 40: 313-324. May 1942. Literature cited. 81 Sol2
- BERKELEY, GARVEN H., and PLAKIDAS, ANTONIOS G. Strawberry leaf roll, a new disease. Phytopath. 32(7): 631-633, illus. July 1942. Bibliographical footnotes. 464.8 P56
A virus disease.
- BROOKS, REID M. Climate in relation to deciduous production in California. II. Effect of the warm winter of 1940-41 on apricot, plum, and prune varieties in northern California. Amer. Soc. Hort. Sci. Proc. 40: 209-211. May 1942. Literature cited. 81 Sol2
- CAIN, ROBERT F. Comparative transpiration rates of peaches and citrus. Amer. Soc. Hort. Sci. Proc. 40: 79-83. May 1942. Literature cited. 81 Sol2
- CHAPMAN, HOMER D., and PARKER, EDWIN R. Weekly absorption of nitrate by young, bearing orange trees growing out of doors in solution cultures. Plant Physiol. 17(3): 366-376, illus. July 1942. Literature cited. 450 P692
- COWART, FRED F. The effect of magnesium deficiency in grapefruit trees upon the composition of fruit. Amer. Soc. Hort. Sci. Proc. 40: 161-164. May 1942. Literature cited. 81 Sol2
- DAVEY, ARTHUR E., and HESSE, CLARON O. Experiments with sprays in the control of preharvest drop of Bartlett pears in California. Amer. Soc. Hort. Sci. Proc. 40: 49-53. May 1942. Literature cited. 81 Sol2
- DUFRENOY, JEAN, and REED, HOWARD S. Coacervates in physical and biological systems. Phytopath. 32(7): 568-579, illus. July 1942. Literature cited. 464.8 P56
Characteristic vascular inclusions were found in roots and buds as well as leaves of "mottled leaved" orange.

- ENGLISH, HARLEY, and GERHARDT, FISK. Effect of carbon dioxide and temperature on the decay of sweet cherries under simulated transit conditions. Amer. Soc. Hort. Sci. Proc. 40: 172-176. May 1942. Literature cited. 81 Sol2
- FAES, HENRY, STAHELIN, MARKUS, and AUBERT, P. Recherches sur la conservation des pommes et des poires. Landw. Jahrb. der Schweiz 56(3): 207-277, illus. 1942. 17 L23
- GRAY, GEORGE F. Resistance of grape varieties to the freeze of November, 1940. Amer. Soc. Hort. Sci. Proc. 40: 329-331. May 1942. 81 Sol2
- GUNTHER, FRANCIS A., and EBELING, WALTER. The determination of kerosene oil deposit on citrus leaves. Jour. Econ. Ent. 35(3): 333-339, illus. June 1942. Literature cited. 421 J822
- HALMA, FREDERICK F. Leaf sap concentration and cold resistance in the avocado. Amer. Soc. Hort. Sci. Proc. 40: 231-235. May 1942. Literature cited. 81 Sol2
- HENDRICKSON, ARTHUR H., and VEIHMEYER, FRANK J. Irrigation experiments with pears. Blue Anchor 19(3): 18-21, diags. Aug. 1942. 286.83 B62
- HENDRICKSON, ARTHUR H., and VEIHMEYER, FRANK J. Readily available soil moisture and sizes of fruits. Amer. Soc. Hort. Sci. Proc. 40: 13-18. May 1942. Literature cited. 81 Sol2
- Experiments with Phillips cling peaches, Bartlett pears and French prunes. No benefit from high soil moisture content.
- HESSE, CLARON O., and DAVEY, ARTHUR E. Experiments with sprays in the control of fruit drop of apricot and peach. Amer. Soc. Hort. Sci. Proc. 40: 55-62. May 1942. 81 Sol2
- KELLEY, VICTOR W., and McMUNN, RICHARD L. November, 1940, cold damage to fruit plants in Illinois. Amer. Soc. Hort. Sci. Proc. 40: 220-224. May 1942. 81 Sol2
- LILLELAND, OSMUND, BROWN, JAMES G., and CONRAD, JOHN P. The phosphate nutrition of fruit trees. III. Comparison of fruit tree and field crop responses on a phosphate deficient soil. Amer. Soc. Hort. Sci. Proc. 40: 1-7, illus. May 1942. Literature cited. 81 Sol2
- MacDANIELS, LAURENCE H. Notes on the pollination of the Italian prune. Amer. Soc. Hort. Sci. Proc. 40: 84-86. May 1942. Literature cited. 81 Sol2
- MANEY, THOMAS J. Fruit tree injury resulting from the midwest blizzard of November 1940. Amer. Soc. Hort. Sci. Proc. 40: 215-219, illus. May 1942. 81 Sol2
- MANEY, THOMAS J. What has happened to fruit trees since the mid-west blizzard of November, 1940. Amer. Pomol. Soc. Proc. 57(1941): 182-189, illus. [1942] 81 Am33
- MINGES, PHILIP, MANEY, THOMAS J., and PICKETT, BETHEL S. Strawberry production in southeastern Iowa as influenced by varieties, fertilizers and cultural practices. Iowa Agr. Expt. Sta. Res. Bul. 295, pp. 509-564, illus. Ames, Mar. 1942. Literature cited. 100 Io9
- OLMO, HAROLD P. The use of seed characters in the identification of grape varieties. Amer. Soc. Hort. Sci. Proc. 40: 305-309. May 1942. Literature cited. 81 Sol2
- PONTIS, RAFAEL E., and HANSEN, HANS N. Olive anthracnose in the United States. Phytopath. 32(7): 642-644, illus. July 1942. Bibliographical footnotes. 464.8 P56
- Caused by *Gloeosporium olivarum*, first report of this fungus in the United States.

- ROBERTS, RAY H., and STRUCKMEYER, BURDEEN E. Growth and fruiting of the cranberry. Amer. Soc. Hort. Sci. Proc. 40: 373-379, illus. May 1942. 81 Sol2
- SNYDER, ELMER, and HARMON, FRANK N. Some effects of zinc sulphate on the Alexandria grape. Amer. Soc. Hort. Sci. Proc. 40: 325-327, illus. May 1942. Literature cited. 81 Sol2
- TALBERT, THOMAS J. Orchard cold damage resulting from freeze of November 11-15, 1940. Amer. Pomol. Soc. Proc. 57(1941): 177-182. [1942] 81 Am33
- TUKEY, HAROLD B. Time interval between full bloom and fruit maturity for several varieties of apples, pears, peaches and cherries. Amer. Soc. Hort. Sci. Proc. 40: 133-140. May 1942. Literature cited. 81 Sol2
- WEBSTER, JAMES E., and CROSS, FRANK B. The uneven ripening of Concord grapes: chemical and physiological studies. Okla. Agr. Expt. Sta. Tech. Bul. T-13, 48 pp., illus. Stillwater, June 1942. Literature cited. 100 Ok4
- YARNELL, SIDNEY H. Leaf segregation in Citrus-Poncirus hybrids. Amer. Soc. Hort. Sci. Proc. 40: 259-263, illus. May 1942. Literature cited. 81 Sol2
- ZELLER, SANFORD M., and MILBRATH, JOHN A. Banded chlorosis, a transmissible disease of cherry. Phytopath. 32(7): 634-635, illus. July 1942. 464.8 P56
A virus disease.

Fruits and nuts See also Apple; Blueberry; Peach

GRASSES AND FORAGE PLANTS

- ALBRECHT, HERBERT R. Earliness of maturity as a factor influencing seed production in vetch. Amer. Soc. Agron. Jour. 34(7): 662-666, illus. July 1942. Literature cited. 4 An34P
- ARMSTRONG, J. M., NOWOSAD, F. S., and RIPLEY, P. O. Alfalfa for hay, silage and pasture. Canada. Dept. Agr. Farmers' Bul. 110 (Pub. 735), 28 pp., illus. Ottawa, May 1942. 7 Cl6F
- BUCHHOLTZ, WALTER F. Influence of cultural factors on alfalfa seedling infection by Pythium debaryanum Hesse. Iowa Agr. Expt. Sta. Res. Bul. 296: 573-592, illus. (incl. map) Ames, Mar. 1942. Literature cited. 100 Io9
- DRAKE, F. R. Pasture plant research at Burnley. Report for 1941. Victoria Dept. Agr. Jour. 40(7): 329-336, illus. July 1942. 23 V66J
- GARBER, RALPH J., and CHILTON, S. J. P. The occurrence and inheritance of certain leaf "spots" in sudan grass. Amer. Soc. Agron. Jour. 34(7): 597-606, illus. July 1942. Bibliographical footnotes. 4 An34P
- HASTINGS, STEPHEN H., and DEAN, HAROLD K. Percolation and water requirement studies with alfalfa by means of lysimeters in Oregon. Oreg. Agr. Expt. Sta. Bul. 404, 16 pp. Corvallis, Feb. 1942. Literature cited. 100 Or3
- HOLLOWELL, EUGENE A. Ladino white clover for the Northeastern States. U. S. Dept. Agr. Farmers' Bul. 1910, 10 pp., illus. 1942. 1 Ag84F
- HULL, A. C., JR., and PECHANEC, JOSEPH F. An extension of range for blue grama. Ecology 23(3): 369. July 1942. Literature cited. 410 Ec7

- JOHANNESBURG. UNIVERSITY OF WITWATERSRAND. BOTANICAL DEPT. Annual report 1942. A summarised report upon work accomplished during the year 1941/42: Soil erosion and grassland improvement grant for research. 50 pp., processed. 1942. 60.19 J59
- KUHN, A. O., and KEMP, W. B. Differences in sugar content of grass associated with soil fertility, growth conditions, and growth habit. Amer. Soc. Agron. Jour. 34(7): 672-674. July 1942. 4 Am34F
- KUMAR, L. S. S., and ABRAHAM, A. Induction of polyploidy in crop plants Current Sci. [India] 11(3): 112-113, illus. Mar. 1942. Literature 475 Sci23
- Application of colchicine to *Phaseolus radiatus* (mug).
- LANG, ROBERT, and BARNES, O. K. Range forest production in relation to time and frequency of harvesting. Wyo. Agr. Expt. Sta. Bul. 253, 32 pp., illus. Laramie, June 1942. Literature cited. 100 W99
- McKEE, ROLAND, and McNAIR, A. D. Winter legumes for green manure in the Cotton Belt. U. S. Dept. Agr. Farmers' Bul. 1663, rev., 20 pp., illus. Issued Apr. 1931, rev. May 1942. 1 Ag84F
- MELCHERS, LEO E. On the cause of the milo disease. Phytopath. 32(7): 640-641. July 1942. 464.8 P56
- Suggests there are causal factors in addition to the organism, *Pythium arrhenomanes*.
- PETERSON, MAURICE L., and MELCHERS, LEO E. Studies on black stem of alfalfa caused by *Ascochyta imperfecta*. Phytopath. 32(7): 590-597, illus. July 1942. Literature cited. 464.8 P56
- PICKFORD, G. D., and REID, ELBERT H. Basis for judging subalpine grassland ranges of Oregon and Washington. U. S. Dept. Agr. Cir. 655, 37 pp., illus. July 1942. Literature cited. 1 Ag84C
- STEPHENS, JAMES L. Lespedeza in the Coastal Plain area. Amer. Soc. Agron. Jour. 34(7): 685. July 1942. 4 Am34F
- UPHOF, JOHANNES C. T. Variedades de caupí resistentes a la podredumbre de las raíces. Hacienda 37(8): 326, illus. Aug. 1942. 6 H11
- WEAVER, JOHN E., and MUELLER, IRENE M. Role of seedlings in recovery of midwestern ranges from drought. Ecology 23(3): 275-294, illus. July 1942. Literature cited. 410 Ec7
- WEINMANN, H. On the autumnal remigration of nitrogen and phosphorus in *Trachypogon plumosus*. Jour. So. African Bot. 8(2): 179-196. Apr. 1942. References. 450 J8262

OIL PLANTS

- EATON, SCOTT V. Sulphur content of seeds and seed weight in relation to effects of sulphur deficiency on growth of sunflower plants. Plant Physiol. 17(3): 422-434, illus. July 1942. Literature cited. 450 P692
- FERNHOLZ, DONALD L., and POTTER, GEORGE F. Injury to tung trees by low temperatures occurring in November, 1940. Amer. Soc. Hort. Sci. Proc. 40: 225-230, illus. May 1942. 81 Sol2
- FERNHOLZ, DONALD L., and HINES, LEE. Preliminary storage experiments with pollen of tung (*Aleurites fordii* Hemsl.) Amer. Soc. Hort. Sci. Proc. 40: 251-254. May 1942. Literature cited. 81 Sol2
- GUENTHER, ERNEST S. The essential oil of pepper. Amer. Perfumer and Essential Oil Rev. 44(8): 39-40, 43, 45, illus. Aug. 1942. 308.8 Am3
- Piper nigrum*.

GUENTHER, ERNEST S. The tea-tree oils. Soap 10(8): 23-25, 107, 109, illus. Aug. 1942. References. 307.8 Sol2

Cajuput from *Melaleuca leucadendron*, niaouli from *M. viridiflora*.
REUTHER, WALTER, and BURROWS, FRED W. The effect of manganese sulfate on the photosynthetic activity of frenched tung foliage. Amer. Soc. Hort. Sci. Proc. 40: 73-76, illus. May 1942. Literature cited. 81 Sol2

SHARPE, RALPH H., and MERRILL, SAMUEL, JR. Effect of stratification and time planting on germination of tung seed. Amer. Soc. Hort. Sci. Proc. 40: 286-291. May 1942. Literature cited. 81 Sol2

WEBSTER, C. C. A simple method of budding tung trees. Nyasaland Agr. Quart. Jour. 1(1): 8-9, 11-12, pl. Jan. 1941. 24 N983

WEBSTER, C. C. Topworking *Aleurites montana*. The results of some preliminary experiments. Nyasaland Agr. Quart. Jour. 2(2): 10-15, illus. Apr. 1942. 24 N983

ORNAMENTALS

ALLEN, PAUL H. *Huntleya burtii*. Amer. Orchid Soc. Bul. 11(3): 86-87, illus. Aug. 1, 1942. 80 Am329
Native of Panama.

ANDERSON, HARRY W., and THORNBERRY, HALBERT H. Bacterial leaf spot of *Viburnum*. Plant Dis. Rptr. 26(14): 306. Aug. 1, 1942. 1.9 P69P

BAIRD, EUGENE, and LAURIE, ALEX. Studies of the effect of environmental factors and cultural practices on bud initiation, bud abscission and bud development of the gardenia. Amer. Soc. Hort. Sci. Proc. 40: 585-588, illus. May 1942. Literature cited. 81 Sol2

BEACH, GEORGE. Carnations in various nutrient solutions. Amer. Soc. Hort. Sci. Proc. 40: 573-577. May 1942. Literature cited. 81 Sol2

BEHAVIOUR of garden plants. no. XLII. Lily of the valley. Gard. Chron. 112(2897): 1. July 4, 1942. 80 G162

BLASDALE, WALTER C. The snapdragon rust. Calif. Hort. Soc. Jour. 3(3): 126-129. July 1942. 81 G1293

CHADWICK, LEWIS C. Fertilization of ornamental plants in landscape plantings. II. Parks & Recreation 25(11/12): 445-448. July/Aug. 1942. 98.8 P23

COOPER, EDWARD W. *Catasetum fimbriatum* var. *inconstans*. Orchid Rev. 50(589): 109-112. July 1942. 80 Orl5

CREAGER, DON B., and BOEWE, GIDEON H. Peony anthracnose found in Illinois. Plant Dis. Rptr. 26(12/13): 280-281. July 1/15, 1942. 1.9 P69P

CREAGER, DON B. Rot of calla roots can be eliminated. South. Florist and Nurseryman 53(17): 24. July 24, 1942. 80 So86

DALE, ERNEST E. Inheritance of two factors affecting anthocyanin distribution in flowers of petunia. Mich. Acad. Sci. Papers 27(1941): 3-6, pl. Mar. 1942. Literature cited. 500 M582

DAVIDS, A. G. Interesting story of the Croft lily as told on Pacific coast. Florists' Rev. 90(233): 21. July 23, 1942. 80 W41

DILLON, GORDON W. *Dendrobium densiflorum* and its allies. Amer. Orchid Soc. Bul. 11(3): 81-85, illus. Aug. 1, 1942. 80 Am329

DOUCETTE, CHARLES F. Variations in tolerance of narcissus bulbs to hot water-formalin treatment associated with locality of production or of storage. Jour. Econ. Ent. 35(3): 403-405, illus. June 1942. 421 J822

- FOSSUM, M. T., and LAURIE, ALEX. Further studies on the effects of several spray materials on the apparent photosynthetic rate of greenhouse roses. *Amer. Soc. Hort. Sci. Proc.* 40: 77-78. May 1942. Literature cited. 81 Sol2
- HAWKES, ALEX D. The genus *Epidendrum* in Florida. *Amer. Orchid Soc. Bul.* 11(3): 79-81. Aug. 1, 1942. 80 Am329
- HOLLEY, W. D. The effect of light intensity on the photosynthetic efficiency of carnation varieties. *Amer. Soc. Hort. Sci. Proc.* 40: 569-572. May 1942. Literature cited. 81 Sol2
- KELLY, CLAYTON M. The habitat of *Begonia octopetala*. *Begonian* 9(4): 57-58. Apr. 1942. 96.511 B39
- Found by Goodspeed east of coastal town of Lurin, a few miles from Lima, Peru.
- KRAUSS, HELEN K. *Begonia rex*, its allies and hybrids. *Begonian* 9(7): 102-103. July 1942. 96.511 B39
- KRAUSS, HELEN K. History of begonias. *Begonian* 9(2-5): 22, 37, 56, 74-75. Feb., Mar., Apr., May 1942. 96.511 B39
- LONGLEY, LEWIS E. Color in two garden chrysanthemum crosses. *Amer. Soc. Hort. Sci. Proc.* 40: 583-584. May 1942. Literature cited. 81 Sol2
- LYLE, ELDON W., and ALTSTATT, GEORGE E. Tests with two varieties of roses for resistance to black spot. *Plant Dis. Rptr.* 26(12/13): 282-283. July 1/15, 1942. 1.9 P69P
- MALMBORG, G. E. A Masonic homes garden spot [in Elizabethtown, Pa.] *Parks & Recreation* 25(11/12): 435-441, illus. July/Aug. 1942. 98.8 P23
- MIDDLETON, JOHN T., TUCKER, CLARENCE M., and TOMPKINS, C. M. *Pythium* disease of fibrous-rooted begonia and its control. *Jour. Agr. Res.* 65(2): 89-95, illus. July 15, 1942. Literature cited. 1 Ag84J
- NELSON, HARRY. *Ranunculus asiaticus*. *Calif. Hort. Soc. Jour.* 3(3): 121-125. July 1942. 81 Cl293
- RATSEK, J. C. The effect of sulphur on growth of roses in an alkaline soil. II. Results for 1940 and 1941. *Amer. Soc. Hort. Sci. Proc.* 40: 565-568. May 1942. Literature cited. 81 Sol2
- SMITH, FLOYD F., and WEISS, FREEMAN. Relationship of insects to the spread of azalea flower spot. *U. S. Dept. Agr. Tech. Bul.* 798, 43 pp., illus. Jan. 1942. 1 Ag84Te
- STEWART, WILLIAM S., and STUART, NEIL W. The distribution of auxins in bulbs of *Lilium longiflorum*. *Amer. Jour. Bot.* 29: 529-532, illus. July 1942. Literature cited. 450 Am36
- TILFORD, PAUL E., and RUNNELS, HARMON A. *Verticillium* wilt of chrysanthemums and its control. *Ohio Agr. Expt. Sta. Bul.* 630, 23 pp., illus. Wooster, July 1942. Literature cited. 100 Oh35
- VAN MELLE, P. J. The Vilmorin violet. *Gard. Chron. Amer.* 46(8): 242-243. Aug. 1942. 80 Gl632
- Thinks that all violets offered as *V. sulfurea* or *V. odorata* var. *sulfurea* are actually *V. odorata* var. *vilmoriniana*, the original *V. sulfurea* never having been introduced into gardens.
- WALTHER, ERIC. Notes from the Arboretum, Golden Gate Park, San Francisco. *Calif. Hort. Soc. Jour.* 3(3): 161-164. July 1942. 81 Cl293
- WOODRIFT, LESLIE. *Begonia* development cited by grower. *Florists' Rev.* 90(2331): 18-19. July 30, 1942. 80 W41
- Experiments in crossing for new varieties.

PEACH

- BAILEY, JOHN S., and FRENCH, ARTHUR P. The inheritance of blossom type and blossom size in the peach. Amer. Soc. Hort. Sci. Proc. 40: 248-250. May 1942. Literature cited. 81 Sol2
- BLAKE, MAURICE A. Additional studies of the acidity and tannin content of mature peach fruits. Amer. Soc. Hort. Sci. Proc. 40: 153-156. May 1942. Literature cited. 81 Sol2
- DAVIS, LUTHER D. The relation between diameter and fresh weight of developing peach fruits. Amer. Soc. Hort. Sci. Proc. 40: 146-152. May 1942. Literature cited. 81 Sol2
- HUBER, GLENN A., and BAUR, KARL. Apothecia of *Sclerotinia fructicola* on peach in western Washington. Phytopath. 32(7): 635-636, illus. July 1942. 464.8 P56

Not previously recorded in this state.

- OLNEY, A. J., and ARMSTRONG, W. D. The response of peaches in Kentucky to cultivation and cover crops and to sod cultures. Amer. Soc. Hort. Sci. Proc. 40: 123-125. May 1942. 81 Sol2
- PICKETT, BARZILLAI S. Initiation of peach flower parts. Amer. Soc. Hort. Sci. Proc. 40: 111-112. May 1942. Literature cited. 81 Sol2
- SAVAGE, EARL F., and COWART, FRED F. Factors affecting peach tree longevity in Georgia. Ga. Expt. Sta. Bul. 215, 15 pp., illus. Experiment, Mar. 1942. Literature cited. 100 G295
- SCOTT, DONALD H., WAUGH, JOHN G., and CULLINAN, FRANK P. An injurious effect of peach juice on germination of the seed. Amer. Soc. Hort. Sci. Proc. 40: 283-285. May 1942. Literature cited. 81 Sol2

POTATO

- BALD, JOHN G., and PUGSLEY, A. T. The main virus diseases of the potato in Victoria. Austral. Council Sci. & Indus. Res. Pam. 110, 40 pp., 4 pl. Melbourne, 1941. References. 514 Au72P
- BARNES, W. C. Effect of date and depth of planting on yield of Irish Cobbler potatoes. Amer. Soc. Hort. Sci. Proc. 40: 513-515. May 1942. Literature cited. 81 Sol2
- BONDE, REINER. Ring rot in volunteer plants. Amer. Potato Jour. 19(7) 131-133. July 1942. 75.8 P842
- CAMPBELL, JOHN C. Irrigation for potatoes in New Jersey. Hints to Potato Growers 22(11): 1-3. Mar. 1942. 75.9 H59
- CAMPBELL, JOHN C., and PEPPER, BAILEY E. Potato experiments in 1942. Hints to Potato Growers 23(2): 1-2. June 1942. 75.9 H59
- CORDNER, H. B. A study of problems relating to production of fall-crop Irish potatoes in Oklahoma. Okla. Agr. Expt. Sta. Bul. B-258, 59 pp., illus. Stillwater, June 1942. Literature cited. 100 Ok4
- DENNY, FRANK E., and THORNTON, NORWOOD C. Interrelationship of storage temperature, concentration and time in the effect of carbon dioxide upon the sugar content of potato tubers. Boyce Thompson Inst. Contrib. 12(5): 361-363, illus. Apr./June 1942. Literature cited. 451 B69
- DIETZ, CARL F., and VERNER, LEIF. An auxanometer for continuous recording of potato tuber growth. Amer. Soc. Hort. Sci. Proc. 40: 509-512, illus. May 1942. Literature cited. 81 Sol2
- DRIVER, C. M. Recent advances in potato breeding. New Zeal. Jour. Sci. and Technol. 23(3A): 180A-184A. Oct. 1941. Bibliography. 514 N48

- ELLIS, N. K. A comparison of stands and yields from seed pieces cut from the apical and stem ends of Irish Cobbler, Russet Rural, and Chippewa potatoes. Amer. Soc. Hort. Sci. Proc. 40: 516-518. May 1942. Literature cited. 81 Sol2
- FOLSOM, DONALD. Potato virus disease studies with tuber-line seed plots and insects in Maine. Maine Agr. Expt. Sta. Bul. 410, pp. 215-250, illus. (map), 4 pl. Orono, June 1942. Literature cited. 100 M28S
- IVERSON, VINCENT E., and KELLY, H. C. A new method of identifying potato tubers free from bacterial ring rot and other types of tuber decay. Calif. Dept. Agr. Spec. Pub. 189, (Proc. Ann. Confs. West. Plant Board) pp. 46-48. Sacramento [1942] 2 Cl21S
- KRANTZ, FRED A., and LANA, E. P. Incidence of hollow heart in potatoes as influenced by removal of foliage and shading. Amer. Potato Jour. 19(7): 144-149. July 1942. Literature cited. 75.8 P842
- LEVITT, JACOB. A histological study of hollow heart of potatoes. Amer. Potato Jour. 19(7): 134-143, illus. July 1942. Literature cited. 75.8 P842
- LIST, GEORGE M., and KREUTZER, WILLIAM A. Transmission of the causal agent of the ring-rot disease of potatoes by insects. Jour. Econ. Ent. 35(3): 455-456. June 1942. Literature cited. 421 J822
- MICHENER, H. DAVID. Dormancy and apical dominance in potato tubers. Amer. Jour. Bot. 29(7): 558-568, illus. July 1942. Literature cited. 450 Am36
- MILES, HERBERT W., and MILES, MARY. Investigations on potato root eelworm, *Heterodera rostochiensis* Wollenweber, on the cyst population of a field over a series of years. Ann. Appl. Biol. 29(2): 109-114. May 1942. References. 442.8 An72

RUBBER PLANTS

- LOOMIS, HAROLD F. Methods of splitting Hevea seedlings. Jour. Agr. Res. 65(2): 97-124, illus. July 15, 1942. 1 Ag84J
- MacDOUGAL, DANIEL T. Domestication in a decade. N. Y. Bot. Gard. Jour. 43(511): 165-168. July 1942. 451 N48J
- The story of guayule.
- RANDS, ROBERT D. Hevea rubber culture in Latin America. Problems and procedures. III. India Rubber World 106(5): 461-465, illus. Aug. 1942. Literature cited. 305.8 In2
- WOODWARD, CAROL H., and MacDOUGAL, DANIEL T. What is guayule? N. Y. Bot. Gard. Jour. 43(511): 168-170. July 1942. 451 N48J

SUGAR PLANTS

- CHONA, B. L., and PADWICK, G. W. More light on the red-rot epidemic. Indian Farming 3(2): 70-73, pl. Feb. 1942. 22 In283
- A new and more virulent strain of *Colletotrichum falcatum*.
- HEDAYETULLAH, SYED, and SAHA, J. C. A new phanerogamic parasite of sugarcane in Bengal. Current Sci. [India] 11(3): 109-110, illus. Mar. 1942. 475 Sci23
- Aeginetia pedunculata.
- THE IRRIGATION of sugarcane in the Bombay Deccan. [Based upon the results of research work carried out under the Sugarcane research scheme, Bombay Deccan, Padegaon.] Bombay Dept. Agr. Leaflet 1, 1941 (n.s.) 6 pp. 22 B63L

- LEACH, LYSLE D. Root-rot diseases of sugar beets. Sugar Beet Bul. 5(2): 56-57, illus. Feb. 1941. 66.8 Sp7
- McBIRNEY, S. W. Single seed planting of sugar beets. Spreckels Sugar Beet Bul. 6(3): 13-14, illus. Mar. 1942. 66.8 Sp7
- NUCKOLS, SAMUEL B. Plant hormone treatment of sugar beet seed. Sugar Beet Jour. 7(11): 210-211, 214. Aug. 1942. 66.8 Su38
- No significant results.
- PADMANABHAN, S. Y., and RAFAY, S. A. Two new reports of fungi on *Saccharum officinarum* & *S. arundinaceum*. Current Sci. [India] 11(4): 150-152, illus. Apr. 1942. 475 Sci23
- Schizophyllum commune a very weak parasite.
- Darluka filum found on *Puccinia kuehnii* on *Saccharum arundinaceum*.
- PARTHASARATHY, NAVALPAKKAM, and VENKATRAMAN, T. S. Yet more parents for sugarcane breeding. Current Sci. [India] 11(4): 150. Apr. 1942. 475 Sci23
- Narenga narenga & Sclerostachya.
- REED, E. P. 16 years of tests form basis for fertilizer recommendations. Sugar Beet Jour. 7(11): 212-214. Aug. 1942. 66.8 Sp7
- TOLMAN, BION, and MURPHY, ALBERT. Sugar-beet culture in the inter-mountain area with curly top resistant varieties. U. S. Dept. Agr. Farmers' Bul. 1903, 52 pp., illus. (incl. map) May 1942. 1 Ag84F
- VENKATRAMAN, T. S., and PARTHASARATHY, NAVALPAKKAM. Chromosome counts in the sugarcane and its hybrids. Current Sci. [India] 11(5): 194-195, illus. May 1942. 475 Sci23
- Varying numbers of chromosomes in *Saccharum spontaneum* & also in *Bambusa arundinacea* show that "mere numbers alone are not sufficient to indicate parentage with certainty."

TOBACCO

- ALCARÁZ MIRA, ENRIQUE. Variedades de tabaco resistentes al mosaico. Agricultura [Madrid] 11(121): 189-192, illus. May 1942. Bibliographical footnotes. 15 Ag84
- ANDERSON, PAUL J. Mosaic or calico disease of tobacco. Conn. (State) Agr. Expt. Sta. Bul. 457, pp. 253-260, illus. New Haven, May 1942. 100 C76St
- ANDERSON, PAUL J. Tobacco diseases in 1941. In Tobacco substation at Windsor, report for 1941. Conn. (State) Agr. Expt. Sta. Bul. 457, pp. 248-252, illus. New Haven, May 1942. 100 C76St
- CLAYTON, EDWARD E., GAINES, JOHN G., and others. Gas treatment for the control of blue mold of tobacco. U. S. Dept. Agr. Tech. Bul. 799, 38 pp., illus. Feb. 1942. Literature cited. 1 Ag84Te
- DAVIS, WILLIAM H. A tobacco seedbed survey in Massachusetts, 1942. Plant Dis. Rptr. 26(12/13): 285-287. July 1/15, 1942. 1.9 P69P
- "TERMATE" controls downy mildew in tobacco seed beds. Du Pont de Nemours, E. I. & Co., Agr. News Letter 10(4): 86. July/Aug. 1942. 6 D92
- Ferric dimethyl dithiocarbamate, will give 95 to 100 per cent control.
- HELSON, G. A. H. The leaf hopper *Thamnotettix argentata* Evans, a vector of tobacco yellow dwarf. Austral. Council Sci. & Indus. Res. Jour. 15(2): 175-184, illus. May 1942. References. 514 Au72J

- JOHNSON, JAMES, and FULTON, ROBERT W. The broad ring-spot virus. *Phytopath.* 32(7): 605-612, illus. July 1942. Literature cited. 464.8 P56
- On tobacco.
- KOSERLAF, EROL. The outstanding characteristics of Turkish tobacco. *Istihbarat Bülteni (Turkey)* 115: 28-48. 1941. 280.8 T84
- REID, J. J., NAGHSKI, J., FARRELL, M. A., and HALEY, DENNIS E. Bacterial leafspots of Pennsylvania tobacco. I. Occurrence and nature of the microorganism associated with wildfire. (Antigenically identical with *Pseudomonas fluorescens*). *Pa. Agr. Expt. Sta. Bul.* 422, 36 pp., illus. (cover). State College, Mar. 1942. Bibliography. 100 P381
- VALLEAU, WILLIAM D., JOHNSON, EDWARD M., and DIACHUN, STEPHEN. Association of tobacco leafspot bacteria with roots of crop plants. *Science* 96(2495): 164. Aug. 14, 1942. 470 Sci2
- Causal bacteria of angular leafspot and wildfire can maintain themselves on roots of several unrelated crop plants for at least six months.
- WHITE, LESLIE A. Further data on the cultivation of tobacco among the Pueblo Indians. *Science* 96(2481): 59-60. July 17, 1942. 470 Sci2

TOMATO

- GUSTAFSON, FELIX G. B-naphthoxyacetic acid as an inductor of parthenocarp in tomatoes. *Amer. Soc. Hort. Sci. Proc.* 40: 387-389. May 1942. Literature cited. 81 Sol2
- HAGEMAN, RICHARD H., HODGE, E. S., and MCHARGUE, JAMES S. Effect of potassium iodide on the ascorbic acid content and growth of tomato plants. *Plant Physiol.* 17(3): 465-472, illus. July 1942. Literature cited. 450 P692
- HARTMAN, JOHN D., and STAIR, EDWARD C. Experiments in plowing under coarse organic matter for tomatoes. *Amer. Soc. Hort. Sci. Proc.* 40: 471-474. May 1942. Literature cited. 81 Sol2
- HAWTHORN, LESLIE R. Breeding summer tomatoes for increased size. *Amer. Soc. Hort. Sci. Proc.* 40: 390-394. May 1942. Literature cited. 81 Sol2
- HOEEMEYR, J. D. Good news for tomato growers. A new tomato resistant to *Fusarium* wilt disease. *Farming in South Africa* 17(195): 356. June 1942. 24 So842
- HORSEFALL, JAMES G., and HEUBERGER, JOHN W. Causes, effects and control of defoliation on tomatoes. *Conn. (State) Agr. Expt. Sta. Bul.* 456, pp. 183-223. New Haven, Mar. 1942. Literature cited. 100 C76St
- LEACH, JULIAN G., and BERG, ANTHONY. Tomato tip-blight found in West Virginia. *Plant Dis. Rptr.* 26(12/13): 278. July 1/15, 1942. 1.9 P69P
- LORENZ, OSCAR A., and KNOTT, JAMES E. Studies of gray-wall of tomato. *Amer. Soc. Hort. Sci. Proc.* 40: 445-454, illus. May 1942. Literature cited. 81 Sol2
- Due to high light intensity prevailing in California.
- LUTZ, JACOB M. Factors influencing shoulder bruises of green-wrap tomatoes. *Amer. Soc. Hort. Sci. Proc.* 40: 455-459, illus. May 1942. Literature cited. 81 Sol2
- ROMSHE, F. A. Nematode resistance test of tomatoes. *Amer. Soc. Hort. Sci. Proc.* 40: 423. May 1942. Literature cited. 81 Sol2

- STAIR, EDWARD C., and SHOWALTER, ROBERT K. Tetraploidy in tomatoes induced by the use of colchicine. Amer. Soc. Hort. Sci. Proc. 40: 383-386, illus. May 1942. Literature cited. 81 Sol2
- WALL, ROBERT F., and HARTMAN, E. L. Sand culture studies of the effects of various concentrations of added salts upon the composition of tomato plants. Amer. Soc. Hort. Sci. Proc. 40: 460-466. May 1942. Literature cited. 81 Sol2

TREES AND WOODY PLANTS

- ALLEN, GEORGE S. Parthenocarpy, parthenogenesis, and self-sterility of Douglas fir. Jour. Forestry 40(8): 642-644. Aug. 1942. Literature cited. 99.8 F768
- BLUM, GEBHARD. Ueber osmotische untersuchungen in der mangrove. Schweiz. Bot. Gesell. Ber. 51: 401-422. Oct. 1941. Literature. 451 Sch9
- BRAMBLE, WILLIAM C., and GODDARD, MAURICE K. Effect of animal coaction and seedbed condition on regeneration of pitch pine in the barrens of central Pennsylvania. Ecology 23(3): 330-335, illus. (incl. map) July 1942. Literature. 410 Ec7
- CAMPBELL, WILLIAM A., and SPAULDING, PERLEY. Stand improvement of northern hardwoods in relation to diseases in the northeast. U. S. Forest Serv. Allegheny Forest Expt. Sta. Occas. Paper no. 5, 25 pp., 9 pl. Philadelphia, Feb. 25, 1942. 1.9 F762220c
- CHADWICK, LEWIS C. Thornless honeylocust. (*Gleditsia triacanthos inermis*). Trees 5(4): 12, illus. July/Aug. 1942. 99.8 W52
- CHISMAN, HENRY H. On the range of Shumard red oak. Jour. Forestry 40(8): 658. Aug. 1942. 99.8 F768
- Extension northward to include Cumberland valley in Franklin County, Pa.
- COILE, THEODORE S., and GAISER, R. N. Effect of soil aeration on the foliation of black locust seedlings. Jour. Forestry 40(8): 660-661. Aug. 1942. 99.8 F768
- COOK, CHESTER. Some aspects of tree surgery in Canada. Ann. Appl. Biol. 29(2): 205-208. May 1942. 442.8 An72
- FAULKNER, R. P. The Laburnum. Gard. Chron. 111(2893): 236. June 6, 1942. 80 G162
- FRACKER, STANLEY B. Blister rust control and grain-rust control in the west. Calif. Dept. Agr. Spec. Pub. 189 (Proc. Ann. Confs. West. Plant Board), pp. 40-43. Sacramento, 1942. 2 G121S
- HARPER, ROLAND M. *Quercus macrocarpa* in Alabama. Elisha Mitchell Sci. Soc. Jour. 58(1): 60-63, illus., pl. 11. July 1942. 500 E14
- MARSHALL, RUSH P. Care of damaged shade trees. U. S. Dept. Agr. Farmers' Bul. 1896, 34 pp., illus. May 1942. 1 Ag84F
- POMERLEAU, RENE. Etudes sur la fonte des semis de conifères. Rev. Trimest. Canad. 28(110): 127-153, illus. June 1942. Literature cited. 470 E32
- PRIDEAM, ALFRED M. S. Factors in the rooting of cuttings and the growth of young plants. Amer. Soc. Hort. Sci. Proc. 40: 579-582. May 1942. Literature cited. 81 Sol2
- ROMBERG, LOUIS D. Use of nurse seedlings in propagating the pecan from stem cuttings. Amer. Soc. Hort. Sci. Proc. 40: 298-300, illus. May 1942. Literature cited. 81 Sol2

- SAMPSON, ARTHUR W., and GLOCK, WALDO S. Tree growth and the environmental complex: a critique of "ring" growth studies with suggestions for future research. Jour. Forestry 40(8): 614-620. Aug. 1942. 99.8 F768
- SCHULMAN, EDMUND. Dendrochronology in pines of Arkansas. Ecology 23(3): 309-318. July 1942. Literature cited. 410 Ec7
- SNELL, WALTER H. The production of sporidia of *Cronartium ribicola* on cultivated red currants in relation to infection of white pine. Amer. Jour. Bot. 29(7): 506-513. July 1942. Literature cited. 450 Am36
- STARKER, THURMAN J. Will girdling always kill Douglas fir? Jour. Forestry 40(8): 658-659. Aug. 1942. 99.8 F768
Cites cases of trees still living; possible explanation is natural root grafts.
- STOUTEMYER, VERNON T. Humidification and the rooting of greenwood cuttings of difficult plants. Amer. Soc. Hort. Sci. Proc. 40: 301-304. May 1942. Literature cited. 81 Sol2
- STUDHALTER, RICHARD A., and GLOCK, WALDO S. Apparatus for the production of artificial frost injury in the branches of living trees. Science 96(2485): 165, illus. Aug. 14, 1942. 470 Sci2
- SWARTLEY, JOHN C. The story of red and white hemlock. Trees 5(4): 8, 11-12. July/Aug. 1942. 99.8 W52
Concludes there are no forest or geographic varieties of *Tsuga canadensis*, supposed differences probably due to environmental factors.
- SWINGLE, ROGER U. Phloem necrosis, a virus disease of the American elm. U. S. Dept. Agr. Cir. 640, 8 pp., illus. June 1942. 1 Ag84C

TROPICAL PLANTS

- BERNES, VENTURA. El pasmo del cogollo de la papaya. Agricultor Venezolano 6(72): 40-41. Apr. 1942. 9.95 Ag8
Virus disease.
- CONDIT, IRA J. The croisic (Cordelia) fig. Amer. Soc. Hort. Sci. Proc. 40: 255-258. May 1942. Literature cited. 81 Sol2
- FELLERS, CARL R., and CLAGUE, J. A. Souring of dried dates by sugar tolerant yeasts. Fruit Prod. Jour. and Amer. Vinegar Indus. 21(11): 326-327, 347, illus. July 1942. References. 389.8 F94
- GRAHAM, ROBERT J. D. The effect of low temperature on tropical plants. Bot. Soc. Edinb. Trans. and Proc. 33(2): 104-106. 1941. 451 Ed4T
Records of observations made at St. Andrews.
- JONES, WINSTON W. Respiration and chemical changes of the papaya fruit in relation to temperature. Plant Physiol. 17(3): 481-486. July 1942. Literature cited. 450 P692
- MAYNE, W. W. The agricultural problem of South Indian coffee. Planters' Chron. 37(10): 190-195; (11): 204-208. May 9, 23, 1942. 22 P693
- MAYNE, W. W. The possibility of reducing the strength of bordeaux mixture for the control of coffee leaf disease. (Fifth report). Planters' Chron. 37(7): 132-134. Mar. 28, 1942. 22 P693
- NIXON, ROY W., and CRAWFORD, CARL L. Quality of Deglet Noor date fruits as influenced by bunch thinning. Amer. Soc. Hort. Sci. Proc. 40: 103-110, illus. May 1942. Literature cited. 81 Sol2

- RIOS URANGA, ARMANDO. Cualidades características del cacaotero "Uranga." Méx. Forest. 19(3/4): 32-34. Mar./Apr. 1941. 99.8 M57
- SWAMY, B. G. L. Embryological studies in Palmae. (A preliminary note on the megasporogenesis in Areca catechu Linn.) Current Sci. India, 11(3): 109. Mar. 1942. 475 Sci23
- TRAUB, HAMILTON P., and ROBINSON, THOMAS R. Papaya production in the United States. U. S. Dept. Agr. Cir. 633, 36 pp., illus. Apr. 1942. Literature cited. 1 Ag84C

VEGETABLES

- ANDRUS, CHARLES F., and WADE, BRYAN L. The factorial interpretation of anthracnose resistance in beans. U. S. Dept. Agr. Tech. Bul. 810, 29 pp., illus. June 1942. Literature cited. 1 Ag84Te
- BLACKMORE, ROBERT, and others. Relation of fertility levels and temperature to the color and quality of garden beets. Amer. Soc. Hort. Sci. Proc. 40: 543-548. May 1942. 81 Sol2
- CIANCIO, PEDRO N. La soja. Agr., Com. e Indus. Rev. Min. Agr. e Indus. (Paraguay) 2(5): 11-23. Mar. 1942. 9.7 Ag8R
- COCHRAN, HULON L. Influence of photoperiod on the time of flower primordia differentiation in the Perfection pimiento (Capsicum frutescens L.) Amer. Soc. Hort. Sci. Proc. 40: 493-497, illus. May 1942. Literature cited. 81 Sol2
- CORDNER, H. B. The influence of irrigation water on the yield and quality of sweet corn and tomatoes with special reference to the time and number of applications. Amer. Soc. Hort. Sci. Proc. 40: 475-481. May 1942. Literature cited. 81 Sol2
- CURTIS, LAWRENCE C. Yankee hybrid summer squash, an early, productive first generation cross. Conn. (State) Agr. Expt. Sta. Cir. 152, pp. 61-65, illus. New Haven, May 1942. 100 C76St
- JERKINS, JOHN M., JR. Natural self-pollination in cucumbers. Amer. Soc. Hort. Sci. Proc. 40: 411-412. May 1942. Literature cited. 81 Sol2
- LORANT, MICHAEL. A new vegetable: celtuce. Gard. Chron. 111(2895): 261, illus. (pp. 259-262) June 20, 1942. 80 G162
- "A distinct species of lettuce."
- LORENZ, OSCAR A., and MINGES, P. A. Nutrient absorption by a summer crop of lettuce in Salinas Valley, California. Amer. Soc. Hort. Sci. Proc. 40: 523-527. May 1942. Literature cited. 81 Sol2
- MacGILLIVRAY, JOHN H., and DONEEN, L. D. Soil moisture conditions as related to the irrigation of truck crops on mineral soils. Amer. Soc. Hort. Sci. Proc. 40: 483-492, illus. May 1942. Literature cited. 81 Sol2
- McNEW, GEORGE L. Growth stimulation of peas by tetrachloro-para-benzoquinone, a fungicidal seed protectant. Science 96(2483): 118-119. July 31, 1942. 470 Sci2
- MILLER, JULIAN C., and COVINGTON, HENRY M. Some of the factors affecting the carotene content of sweet potatoes. Amer. Soc. Hort. Sci. Proc. 40: 519-522. May 1942. Literature cited. 81 Sol2
- MILLER, LAWRENCE P. Induced formation of a beta-glucoside in the radish. Boyce Thompson Inst. Contrib. 12(5): 359-360. Apr./June 1942. Literature cited. 451 B69
- MORGAN, EDWARD J. Parsley as a rich source of vitamin C. Nature (London) 150(3794): 92-93. July 18, 1942. Literature. 472 N21

- MUNGER, H. M. The possible utilization of first generation muskmelon hybrids and an improved method of hybridization. Amer. Soc. Hort. Sci. Proc. 40: 405-410. May 1942. Literature cited. 81 Sol2
- OWEN, FORREST V., and RYSER, GEORGE K. Some Mendelian characters in *Beta vulgaris* and linkages observed in the Y-R-B group. Jour. Agr. Res. 65(3): 155-171, illus. Aug. 1, 1942. Literature cited. 1 Ag84J
- SMITH, JOHN B., and HOWARD, FRANK L. Response of Cos or Romaine lettuce to chloropicrin soil treatment, phosphate, and lime. Amer. Soc. Hort. Sci. Proc. 40: 552-556. May 1942. Literature cited. 81 Sol2
- TING, S. V., and BARRONS, KEITH. C. A chemical test for pungency in peppers. Amer. Soc. Hort. Sci. Proc. 40: 504-508, illus. May 1942. Literature cited. 81 Sol2
- TUCKER, CLARENCE M. Controlling plant diseases in the home garden. Mo. Agr. Expt. Sta. Cir. 238, 8 pp. Columbia, June 1942. 100 M693
- WALLS, E. P. Yield and quality tests of edible soybeans grown for canning in Maryland. Amer. Soc. Hort. Sci. Proc. 40: 441-444. May 1942. 81 Sol2
- WOLF, BENJAMIN. Chemical factors influencing the set of Henderson lima beans. Amer. Soc. Agron. Jour. 34(7): 646-650. July 1942. Literature cited. 4 Am34P
- WOLF, EMIL A., and HARTMAN, JOHN D. Plant- and fruit-pruning as a means of increasing fruit set in muskmelon breeding. Amer. Soc. Hort. Sci. Proc. 40: 415-420. May 1942. Literature cited. 80 Sol2
- WOODMAN, ROWLAND M. The nutrition of spinach. Ann. Appl. Biol. 29(2): 97-102. May 1942. References. 442.8 An72
- YOUNG, VIVE H. Spurgeon for sweetpotato treatment: limited test in Arkansas. Plant Dis. Rptr. 26(12/13): 283-285. July 1/15, 1942. 1.9 P69P
- See also Potato; Tomato

SOILS AND FERTILIZERS

- ANDERSON, MYRON S., KEYES, MARY G., and CROMER, GEORGE W. Soluble material of soils in relation to their classification and general fertility. U. S. Dept. Agr. Tech. Bul. 813, 79 pp., illus. June 1942. Literature cited. 1 Ag84Te
- BOYES, J., and BOND, GEORGE. The effectiveness of certain strains of the soya-bean nodule organism when associated with different varieties of the host plant. Ann. Appl. Biol. 29(2): 103-108. May 1942. References. 442.8 An72
- CHAPMAN, L. J., and PUTNAM, D. F. The soils of eastern Ontario. Sci. Agr. 22(10): 608-636, illus. June 1942. References. 7 Sci2
- CORREA de MELLO, PAULO. Cottonseed meal ash as a fertilizer. Amer. Soc. Agron. Jour. 34(7): 677-679. July 1942. 4 Am34P
- DeTURK, E. E. The problem of phosphate fertilizers. Their relation to the phosphate-supplying power of the soil and to the requirements of farm crops. Ill. Agr. Expt. Sta. Bul. 484, pp. 543-583, illus. Urbana, Apr. 1942. Literature cited. 100 Il6S

- DODSON, WILLIAM R. Observations and studies on the peat deposits of Louisiana. La. Agr. Expt. Sta. Bul. 343, 27 pp., illus. Baton Rouge, May 1942. 100 L93
- EDWARDS, MAX J., ABLEITER, J. B., and party. Soil survey of McKenzie County, North Dakota. U. S. Bur. Plant Indus. [Soil Survey Rpt.], ser. 1933, no. 37, 99 pp., illus., map. Mar. 1942. Literature cited. 1 So32
- In cooperation with N. Dak. Agr. Expt. Sta.
- FIRKINS, B. J. Liming Iowa soils. Iowa Agr. Expt. Sta. Bul. P45 (n.s.), pp. 471-484, illus. Ames, May 1942. 100 Io9
- GIESEKER, L. F. Soils of Golden Valley County. Soil reconnaissance of Montana, preliminary report. Mont. Agr. Expt. Sta. Bul. 403, 51 pp., map. Bozeman, Apr. 1942. 100 M76
- HISSINK, D. J. De beteekenis van de grootheden S, T min S, T en V-100S: T in de bodemkunde en voor den praktischen landbouw, getpest aan een aantal typische nederlandsche bouwgronden den vergeleken met de beteekenis van eenige soortgelijke grootheden in dit opzicht. [Netherlands] Dir. van den Landbouw, Verslag. van Landbouwk. Onderzoek. no. 47(5) B, pp. 529-632. 1941. 105.2 V61V
- JOHNSGARD, G. A., and others. Soil survey of Clinton County, Michigan. U. S. Bur. Plant Indus. Soil Survey, ser. 1936, no. 12, 71 pp., map. Feb. 1942. 1 So32
- In cooperation with Mich. Agr. Expt. Sta.
- T. E. Nivison, H. T. Rogers, R. L. Donahue, J. T. Stone, G. M. Welles, M. M. Striker, J. W. Moon, and Z. C. Foster, joint authors.
- KEEN, B. A. Soil physics: theory and practice. Roy. Soc. Arts Jour. 90(4618): 545-579, illus. July 24, 1942. 501 L847J
- Soil physics: its scope in agriculture; Soil cultivation: art or science?; Cultivation and crop yields.
- KEITH, ARTHUR. A postscript to Darwin's "Formation of vegetable mould through the action of worms." Nature (London) 149(3791): 716-720, illus., (map). June 27, 1942. 472 N21
- KNIGHT, A. T. The influence of porosity of some orchard soils upon root behavior. Amer. Soc. Hort. Sci. Proc. 40: 23-26, illus. May 1942. Literature cited. 81 Sol2
- Aeration for root growth of alfalfa important.
- McCOOL, M. M. Agronomic value of kitchen waste. Boyce Thompson Inst. Contrib. 12(5): 345-358, illus. Apr./June 1942. Literature cited. 451 B69
- McMILLER, P. R., and others. Soil survey of Roseau County, Minnesota. U. S. Bur. Plant Indus. [Soil Survey Rpt.] ser. 1936, no. 11, 80 pp., illus., map. Jan. 1942. 1 So32
- In cooperation with Minn. Agr. Expt. Sta.
- E. A. Fieger, Harold Arnenan, M. A. Lauffer, Sam Hill, O. R. Younge, Eric Kneen, A. T. Eagen, J. C. Hide, and Samuel Labovitz, joint authors.
- MARTEN, E. A., and POELMAN, G. G. Forest soil studies. II. Changes in microflora and chemical composition of decomposing tree leaves. Soil Sci. 54(1): 67-77. July 1942. References. 56.8 So3
- MERWE, D. J. van der. The occurrence, characteristics and function of manganese in soil and plant. Farming in South Africa 17(195): 360-364. June 1942. 24 So842

- MUHR, GILBERT R. Plant symptoms of boron deficiency and the effects of borax on the yield and chemical composition of several crops. Soil Sci. 54(1): 55-65, illus. July 1942. References. 56.8 So3
- NEUMAN G., RICARDO. El estudio del suelo con la geografía y feología del Valle de Sana. VII. Fertilidad del suelo. VIII. Clasificación. IX. Carta agrológica. Compañía Admin. Guano Bol. 18(4): 86-109; (5): 123-137, 139-148, illus. May, Apr. 1942. References (each section). 57.9 C73B
- NOLL, C. F., and IRVIN, C. J. Field test of phosphate fertilizers. Pa. Agr. Expt. Sta. Bul. 423, 14 pp., illus. State College, Mar. 1942. 100 P381
- OLSON, OSCAR E., WHITEHEAD, E. I., and MOXON, A. L. Occurrence of soluble selenium in soils and its availability to plants. Soil Sci. 54(1): 47-53. July 1942. References. 56.8 So3
- OLSON, OSCAR E., JORNLIN, D. F., and MOXON, A. L. The selenium content of vegetation and the mapping of seleniferous soils. Amer. Soc. Agron. Jour. 34(7): 607-615, illus. July 1942. Literature cited. 4 Am34P
- READ, H. A. Eucalyptus saligna and soil reclamation. So. African Forestry Assoc. Jour. 7: 50-52, 2 pl. Oct. 1941. 99.9 So82
- ROBERTS, JAMES L., and OLSON, FRANK R. The influence of fertilizers and season on non-symbiotic nitrogen fixation in Brockston and Bedford silt loams. Amer. Soc. Agron. Jour. 34(7): 624-627. July 1942. Literature cited. 4 Am34P
- SMITH, HENRY W., and RHOADES, H. F. Physical and chemical properties of soil profiles of the Scott, Fillmore, Butler, Crete, and Hastings series. Nebr. Agr. Expt. Sta. Res. Bul. 126, 43 pp., illus. Lincoln, June 1942. Literature cited. 100 N27
- TEAKLE, L. J. H. Copper deficient soils in Western Australia. Austral. Inst. Agr. Sci. Jour. 8(2): 70-72. June 1942. References. 23 Au74
- VANDERFORD, HARVEY B., and ALBRECHT, W. A. The development of loessial soils in Central United States as it reflects differences in climate. Mo. Agr. Expt. Sta. Res. Bul. 345, 31 pp., illus. Columbia, June 1942. References cited. 100 M693
- YOUNGS, F. O., and others. Soil survey of the Virgin River Valley area, Utah-Arizona. U. S. Bur. Plant Indus. Soil Survey Rpt., ser. 1936, no. 13, 67 pp., illus., map. Mar. 1942. 1 So32
In cooperation with Utah Agr. Expt. Sta.
O. F. Bartholomew, D. S. Jennings, LeMoyne Wilson, I. D. Zobell, M. H. Wallace, J. E. Fletcher, and William Baugh, joint authors.

AUTHOR INDEX

	<u>Page</u>		<u>Page</u>
Abhyankar, V. S.....	D-36	Baugh, William.....	D-64
Ableiter, J. B.....	D-63	Baur, Erwin.....	D-42
Abraham, A.....	D-52	Baur, Karl.....	D-55
Ackerman, F. G.....	D-27	Baxter, Dow V.....	D-31
Ackerman, W. T.....	D-48	Bayfield, E. G.....	D-46
Adair, E. O.....	D-46	Bayles, B. B.....	D-47
Ahrendt, L. W. A.....	D-28	Baylis, G. T. S.....	D-46
Ajello, Libero.....	D-31	Beach, George.....	D-53
Albrecht, H. R.....	D-51	Beadle, B. W.....	D-38
Albrecht, W. A.....	D-64	Beardsley, Gretchen.....	D-36
Alcaráz Mira, Enrique.....	D-57	Beasley, J. O.....	D-48
Alexander, Gordon.....	D-27	Becherer, Alfred.....	D-34
Allard, H. A.....	D-28, D-34	Beck, W. A.....	D-37, D-38, D-39
Allen, Bruce.....	D-48	Beetle, A. A.....	D-28
Allen, F. W.....	D-43	Beijerinck, M. W.....	D-42
Allen, G. S.....	D-59	Benson, Lyman.....	D-34
Allen, P. H.....	D-53	Berg, Anthony.....	D-58
Allison, J. L.....	D-31	Bergren, W. R.....	D-37
Altstatt, G. E.....	D-54	Berkeley, G. H.....	D-49
Amerine, N. A.....	D-49	Bernes, Ventura.....	D-60
Ames, Oakes.....	D-27	Bertramson, B. R.....	D-37
Anderson, A. J.....	D-37	Bessey, E. A.....	D-31
Anderson, D. C.....	D-46	Bever, W. M.....	D-46
Anderson, H. W.....	D-53	Biebel, J. P.....	D-39
Anderson, M. S.....	D-62	Birkinshaw, J. H.....	D-37
Anderson, P. J.....	D-57	Bisby, G. R.....	D-31
Andrus, C. F.....	D-61	Blackmore, Robert.....	D-61
Andrus, M. B.....	D-39	Blake, M. A.....	D-55
Aranda Jiménez, J. B.....	D-48	Blake, S. F.....	D-27, D-28
Arde, W. R., jr.....	D-31	Bland, D. E.....	D-31
Armstrong, J. M.....	D-51	Blank, Fritz.....	D-46
Armstrong, W. D.....	D-55	Blasdale, W. C.....	D-53
Arneman, Harold.....	D-63	Blinks, L. R.....	D-33
Atkins, I. M.....	D-46	Blum, Gebhard.....	D-59
Atwood, A. C.....	D-27	Blumer, Samuel.....	D-41
Aubert, P.....	D-50	Boewe, G. H.....	D-53
		Bond, George.....	D-62
Bailey, I. W.....	D-28	Bonde, Reiner.....	D-55
Bailey, J. S.....	D-55	Boothroyd, E. R.....	D-41
Baird, Eugene.....	D-53	Boyes, J.....	D-62
Baker, C. E.....	D-43	Boynton, Damon.....	D-44
Bald, J. G.....	D-55	Bradford, F. C.....	D-27
Ball, C. R.....	D-28	Bramble, W. C.....	D-59
Barker, H. D.....	D-37	Brecher, Edward.....	D-48
Barneby, R. C.....	D-28	Brecher, Ruth.....	D-48
Barnes, O. K.....	D-52	Brenckle, J. F.....	D-28
Barnes, W. C.....	D-55	Bretherick, Ormond.....	D-38
Barrons, K. C.....	D-62	Briggs, F. N.....	D-38
Bartholomew, O. F.....	D-64	Brinkerhoff, L. A.....	D-44
Batco, S.....	D-27	Brooks, R. M.....	D-49
Batjer, L. P.....	D-44	Brown, J. G.....	D-50

	<u>Page</u>		<u>Page</u>
Brown, J. R.....	D-29	Cooper, E. W.....	D-53
Broyer, T. C.....	D-40	Cooper, G. O.....	D-39
Brumfield, R. T.....	D-39	Copeland, E. B.....	D-31
Buchholtz, W. F.....	D-51	Cordner, H. B.....	D-55, D-61
Burkhardt, Albert.....	D-39	Correa de Mello, P.....	D-62
Burkholder, C. L.....	D-44	Cotton, R. H.....	D-41
Burkholder, W. H.....	D-43	Couch, J. N.....	D-32
Burr, H. S.....	D-46	Couchman, J. F.....	D-48
Burrell, A. B.....	D-44	Covington, H. M.....	D-41
Burrows, F. W.....	D-53	Cowart, F. F.....	D-49, D-55
Cain, J. C.....	D-44	Crawford, C. L.....	D-60
Cain, R. F.....	D-49	Creager, Don B.....	D-53
Camp, W. H.....	D-29	Crews, C. E.....	D-27
Campbell, D. H.....	D-27	Crist, J. W.....	D-37
Campbell, J. C.....	D-55	Croizat, Leon.....	D-29
Campbell, W. A.....	D-32, D-59	Cromer, G. W.....	D-62
Carrión, A. L.....	D-31	Cronemiller, F. P.....	D-34
Carter, Walter.....	D-37	Cronin, A. G.....	D-39
Cave, M. S.....	D-39	Cronquist, Arthur.....	D-29
Chadwick, L. C.....	D-53, D-59	Cross, F. B.....	D-51
Chambers, A. R.....	D-37	Cullinan, F. P.....	D-55
Chandler, F. B.....	D-44, D-46	Cunningham, I. J.....	D-48
Chapman, H. D.....	D-49, D-62	Curtis, C. H.....	D-28
Chapman, L. J.....	D-62	Curtis, L. C.....	D-61
Chilton, S. J. P.....	D-51	Däniker, A. U.....	D-39
Chisman, H. H.....	D-59	Dale, E. E.....	D-53
Chodat, Fernand.....	D-33	Dalke, P. D.....	D-36
Chona, B. L.....	D-56	Darrow, G. M.....	D-46
Christensen, C. M.....	D-31	Davey, A. E.....	D-49, D-50
Christian, H. B.....	D-29	Davids, A. G.....	D-53
Christopher, E. P.....	D-44	Davidson, R. W.....	D-32
Ciancio, P. N.....	D-61	Davis, A. R.....	D-40
Clague, J. A.....	D-60	Davis, L. D.....	D-55
Clark, J. A.....	D-47	Davis, W. H.....	D-57
Clark, J. H.....	D-46	Dean, H. K.....	D-51
Clark, W. K., jr.....	D-36	Denny, F. E.....	D-55
Claypool, L. L.....	D-39	DeTurk, E. E.....	D-62
Clayton, E. E.....	D-57	Diachun, Stephen.....	D-58
Clokey, I. W.....	D-29	Dickson, A. D.....	D-48
Cochran, H. L.....	D-61	Dickson, J. G.....	D-48
Coffman, F. A.....	D-47	Dietz, C. F.....	D-55
Cohen, S. S.....	D-41, D-42	Dillon, G. W.....	D-53
Coile, T. S.....	D-59	Dixon, H. N.....	D-33
Coker, W. C.....	D-31	Dodson, W. F.....	D-63
Cole, C. E.....	D-44	Donahue, R. L.....	D-63
Collaer, Paul.....	D-39	Doneen, L. D.....	D-61
Condit, I. J.....	D-60	Doucette, C. F.....	D-53
Connors, I. L.....	D-42	Downie, D. G.....	D-39
Conrad, J. P.....	D-50, D-62	Drake, F. R.....	D-51
Cook, Chester.....	D-59	Drew, W. B.....	D-34
Cook, E. S.....	D-39	Driver, C. M.....	D-55
Cooley, J. S.....	D-44	Dufrenoy, Jean.....	D-42, D-49

	<u>Page</u>		<u>Page</u>
Dunn, M. D.....	D-33	Gäumann, Ernst.....	D-32
Eastwood, Alice.....	D-29	Geissmann, T. A.....	D-37
Eaton, F. M.....	D-47	Gerhardt, Fisk.....	D-50
Eaton, S. V.....	D-52	Ghosh, Sudhamoy.....	D-36
Ebeling, Walter.....	D-50	Gieseke, L. F.....	D-63
Edgerton, L. J.....	D-45	Gilbert, S. G.....	D-46
Edwards, M. J.....	D-63	Gilbert, W. J.....	D-34
Egler, F. E.....	D-34	Gilomen, Hans.....	D-35
Ellis, N. K.....	D-56	Glock, W. S.....	D-60
Elvehjem, C. A.....	D-38	Goddard, M. K.....	D-59
English, Harley.....	D-50	Gowen, J. W.....	D-34
Enzie, J. V.....	D-45	Graham, R. J. D.....	D-60
Escue, R. B.....	D-38	Gray, George F.....	D-50
Eyster, H. C.....	D-37	Greathouse, G. A.....	D-37
Faës, Henry.....	D-50	Greenham, C. G.....	D-43
Farrell, M. A.....	D-58	Griggs, W. H.....	D-44
Faulkner, R. P.....	D-59	Gsell, Rudolf.....	D-35
Fellers, C. R.....	D-60	Guenther, E. S.....	D-52, D-53
Fenne, S. B.....	D-42	Gunther, F. A.....	D-50
Ferhardt, Fisk.....	D-50	Gustafson, A. F.....	D-34
Fernald, M. L.....	D-29	Gustafson, F. G.....	D-58
Fernholz, D. L.....	D-52	Haagen-Smit, A. J.....	D-37
Fieger, E. A.....	D-63	Haber, E. S.....	D-47
Firkins, B. J.....	D-63	Hageman, R. H.....	D-58
Fisher, D. F.....	D-44	Hagen, A. T.....	D-63
Fisher, D. V.....	D-44, D-45	Haley, D. E.....	D-58
Fitzpatrick, H. M.....	D-32	Haller, M. H.....	D-44
Flenner, A. L.....	D-43	Halma, F. F.....	D-50
Fletcher, H. R.....	D-30	Hanes, C. R.....	D-35
Fletcher, J. E.....	D-64	Hansen, H. N.....	D-50
Fogg, G. E.....	D-33	Harley, C. P.....	D-44
Folkers, Karl.....	D-37	Harmon, F. N.....	D-51
Folsom, Donald.....	D-56	Harper, Francis.....	D-29
Fosberg, F. R.....	D-29	Harper, R. M.....	D-59
Fossum, M. T.....	D-54	Harris, L. E.....	D-43
Foster, Z. C.....	D-63	Harris, T. M.....	D-36
Fracker, S. B.....	D-59	Harrison, J. A.....	D-48
Frampton, V. L.....	D-42	Harrison, J. W. H.....	D-34
Fraps, G. S.....	D-47	Hartman, E. L.....	D-59
Frei, Max.....	D-32, D-34	Hartman, F. O.....	D-44
French, A. P.....	D-44, D-55	Hartman, J. D.....	D-58, D-62
French, Benjamin.....	D-48	Harvey, E. N.....	D-34
Frey-Wyssling, Albert.....	D-39, D-46	Harvey, J. V.....	D-32
Fulton, R. W.....	D-58	Hastings, S. H.....	D-51
Gaessler, W. G.....	D-47	Hawkes, A. D.....	D-54
Gaines, J. G.....	D-57	Hawthorn, L. R.....	D-58
Gaiser, R. M.....	D-59	Hedayetullah, Syed.....	D-56
Garber, R. J.....	D-51	Hedrick, Joyce.....	D-34
Gates, R. R.....	D-39	Heinicke, A. J.....	D-45
Gauch, H. G.....	D-47	Heinis, Fritz.....	D-29
		Helson, G. A. H.....	D-57
		Hely, F. W.....	D-47

	<u>Page</u>
Hendrickson, A. H.....	D-50
Hendrickson, R. M.....	D-36
Henrici, Marguerite.....	D-39
Hepler, J. R.....	D-48
Herrick, J. A.....	D-42
Hesler, L. R.....	D-32
Hesse, C. O.....	D-49, D-50
Heuberger, J. W.....	D-58
Hewetson, F. N.....	D-45
Hide, J. C.....	D-63
Highbee, E. C.....	D-36
Hildebrand, E. M.....	D-45
Hill, Sam.....	D-63
Hiner, L. D.....	D-40
Hines, Lee.....	D-52
Hissink, D. J.....	D-63
Hitchcock, A. E.....	D-41, D-45
Hixon, R. M.....	D-47
Hoagland, D. R.....	D-40
Hodge, E. S.....	D-58
Hoffman, M. B.....	D-45
Hofmeyr, J. D.....	D-58
Holley, W. D.....	D-54
Hollowell, E. A.....	D-51
Holst, Mrs. M. L.....	D-45
Horsfall, J. G.....	D-58
Hotson, H. H.....	D-29
Hough, L. F.....	D-45
House, H. D.....	D-27
Houseman, E. E.....	D-47
Howard, F. L.....	D-62
Howell, J. T.....	D-28, D-29, D-35
Howlett, F. S.....	D-44
Huber, G. A.....	D-55
Hull, A. C., jr.....	D-51
Huxley, Julian.....	D-40
Hyslop, G. R.....	D-43
Irvin, C. J.....	D-64
Ivanowski, Dmitrii.....	D-42
Iverson, V. E.....	D-56
Jenkins, J. M., jr.....	D-61
Jennings, D. S.....	D-64
Jeuch, Josef.....	D-49
Johnsgard, G. A.....	D-63
Johnson, D. A.....	D-40
Johnson, E. M.....	D-58
Johnson, F. M.....	D-36
Johnson, James.....	D-42, D-58
Johnston, Stanley.....	D-46
Joly, R. A.....	D-39
Jones, W. W.....	D-60

	<u>Page</u>
Jornlin, D. F.....	D-64
Kains, M. G.....	D-40
Kalamkar, R. J.....	D-48
Kaufert, F. H.....	D-31
Keefer, R. M.....	D-39
Keen, B. A.....	D-63
Keith, Arthur.....	D-63
Kelbly, H. G.....	D-49
Kelley, V. W.....	D-50
Kelly, C. M.....	D-54
Kelly, H. C.....	D-56
Kemmerer, A. R.....	D-47
Kemp, W. B.....	D-52
Kernkamp, M. F.....	D-47
Kersten, H.....	D-48
Keyes, M. G.....	D-62
Klemme, D. E.....	D-37
Kneen, Eric.....	D-63
Knight, A. T.....	D-63
Knight, C. A.....	D-42
Knopf, C. S.....	D-27
Knott, J. E.....	D-58
Koblet, Rudolf.....	D-40
Kobuski, C. E.....	D-29
Korschgen, L. J.....	D-36
Köseralf, Erol.....	D-58
Krantz, F. A.....	D-56
Krauss, E. K.....	D-54
Kreutzer, W. A.....	D-56
Kuhn, A. O.....	D-52
Kumar, L. S. S.....	D-52
Labovitz, S.....	D-63
Lahiri, J. K.....	D-36
Lana, E. P.....	D-56
Lang, Robert.....	D-52
Langdon, R. F.....	D-32
Lantz, H. L.....	D-45
Lauffer, M. A.....	D-42, D-63
Laurie, Alex.....	D-53, D-54
Leach, J. G.....	D-53
Leach, L. D.....	D-57
Ledingham, A. E.....	D-38
Leech, W. D.....	D-37, D-57
Lemmon, W. P.....	D-29
Levitt, Jacob.....	D-56
Lilleland, O.....	D-50
Lincoln, R. E.....	D-34
Lindgren, R. M.....	D-42
Linford, M. B.....	D-42
List, G. M.....	D-56
Longley, L. E.....	D-54

	Page		Page
Lonsing, Alfred.....	D-39	Metcalf, C. R.....	D-48
Loomis, H. F.....	D-56	Meyer, S. L.....	D-34
Lorant, Michael.....	D-61	Michener, H. D.....	D-56
Lorenz, O. A.....	D-58, D-61	Middleton, J. T.....	D-54
Ludbrook, W. V.....	D-47	Milbrath, J. A.....	D-51
Lutz, J. M.....	D-58	Miles, H. W.....	D-56
Lyle, E. W.....	D-54	Miles, Mary.....	D-56
Lynch, S. J.....	D-36	Miller, J. C.....	D-61
		Miller, L. P.....	D-61
McAlpin, D. M.....	D-44	Minges, Philip.....	D-50, D-61
McBirney, S. W.....	D-57	Mitchell, J. W.....	D-40
McCool, M. M.....	D-63	Montermoso, J. C.....	D-40
McCown, Monroe.....	D-44	Moon, J. W.....	D-63
McCrory, S. A.....	D-47	Morgan, Edward J.....	D-61
MacDaniels, L. H.....	D-50	Moseley, E. L.....	D-43
MacDougal, D. T.....	D-56	Moxon, A. L.....	D-64
MacGillivray, J. H.....	D-61	Müller, F. W.....	D-32
McHargue, J. S.....	D-58	Mueller, I. M.....	D-52
McHoney, L. L.....	D-46	Muhr, G. R.....	D-64
Mack, W. B.....	D-41	Muller, C. H.....	D-30, D-35
McKee, Roland.....	D-52	Munger, H. M.....	D-62
McMiller, P. R.....	D-63	Muirneek, A. E.....	D-40
McMorran, H. G.....	D-36	Murphy, Albert.....	D-57
McMunn, R. L.....	D-50	Murphy, L. M.....	D-45
McNair, A. D.....	D-52		
McNair, J. B.....	D-38	Naghski, J.....	D-58
McNew, G. L.....	D-61	Narayana, Nuggehalli.....	D-36
McQuesten, L. M.....	D-40	Neal, D. C.....	D-48
Madhava Rao, A.....	D-38	Neill, J. C.....	D-49
Magruder, Roy.....	D-37	Nelson, Harry.....	D-54
Malan, Peter.....	D-41	Nelson, R. C.....	D-37
Malmborg, G. E.....	D-54	Neuman, G., R.....	D-64
Maney, T. J.....	D-50	Newhall, A. G.....	D-42
Mangelsdorf, P. C.....	D-46	Nivison, T. E.....	D-63
Manning, W. M.....	D-34	Nixon, R. W.....	D-60
Manske, R. H. F.....	D-38	Nobles, M. K.....	D-32
Marion, Léo.....	D-38	Noll, C. F.....	D-64
Marshall, R. P.....	D-59	Nowosad, F. S.....	D-51
Marten, E. A.....	D-63	Nuckols, S. B.....	D-57
Mason, H. L.....	D-29		
Mason, I. C.....	D-44, D-46	O'Brien, J. A., jr.....	D-47
Matthews, J. R.....	D-40	Olive, L. S.....	D-32
Maurizio, Anna.....	D-40	Olmo, H. P.....	D-50
Mayer, A.....	D-41	Olney, A. J.....	D-55
Mayer, Adolf.....	D-42	Olson, F. R.....	D-64
Mayne, W. W.....	D-60	Olson, O. E.....	D-64
Mayor, Eugène.....	D-32	O'Rourke, F. L.....	D-46
Melchers, L. E.....	D-52	Osterwalder, Adolf.....	D-42
Mell, C. D.....	D-36	Overholser, E. L.....	D-45
Merrill, E. D.....	D-30	Overly, F. L.....	D-45
Merrill, K. J.....	D-40	Owen, F. V.....	D-62
Merrill, Samuel, jr.....	D-53		
Merwe, D. J. van der.....	D-63	Padmanabhan, S. Y.....	D-57

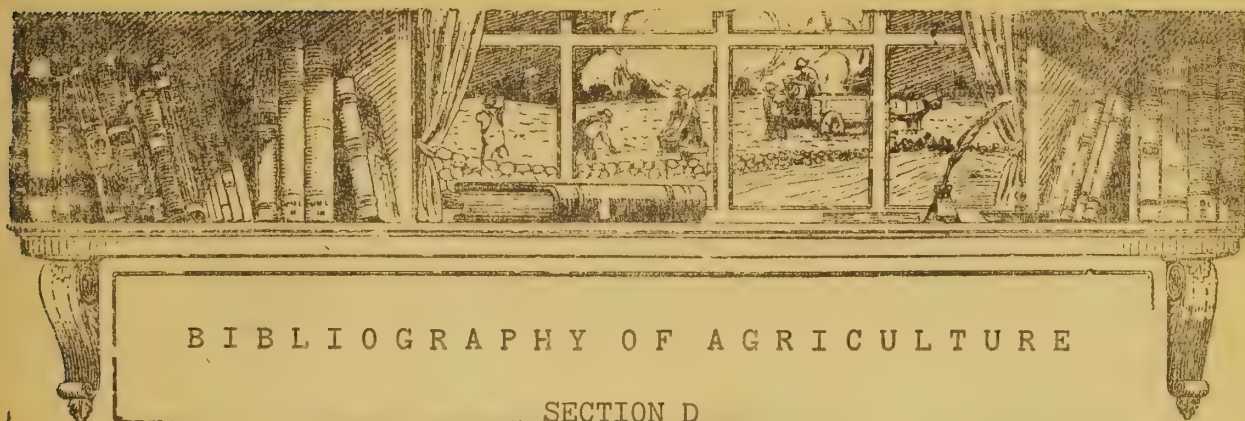
	<u>Page</u>		<u>Page</u>
Padwick, G. W.....	D-56	Roberts, R. H.....	D-45, D-51
Pantulu, J. V.....	D-40	Robinson, T. R.....	D-61
Parker, E. R.....	D-49	Rogers, H. T.....	D-35, D-63
Parker, J. H.....	D-47	Rojas, Teodora.....	D-27
Parker-Rhodes, A. F.....	D-42	Romberg, L. D.....	D-59
Parthasarathy, Navalpakkam.....	D-57	Romshe, F. A.....	D-58
Pearce, John.....	D-42	Runnels, H. A.....	D-54
Pechanec, J. F.....	D-51	Russell, E. J.....	D-28
Pennell, F. W.....	D-28	Ryerson, K. A.....	D-27
Pepper, B. E.....	D-55	Ryser, G. K.....	D-62
Perlmutter, Frank.....	D-46		
Perry, L. M.....	D-30	Saha, J. C.....	D-56
Peterson, M. L.....	D-42, D-52	St. John, Harold.....	D-30, D-31
Pickett, Barzillai S.....	D-55	St. John, J. L.....	D-45
Pickett, Bethel S.....	D-45, D-50	Sakr, El Sayed.....	D-42
Pickford, G. D.....	D-52	Sampson, A. W.....	D-60
Plagge, H. H.....	D-45	Savage, E. F.....	D-46, D-55
Plakidas, A. G.....	D-49	Schaer, Eugen.....	D-38
Pohlman, G. G.....	D-63	Schlittler, E.....	D-38
Pomerleau, René.....	D-59	Schmid, Emil.....	D-35
Pontis, R. E.....	D-50	Schmitz, Henry.....	D-31
Porter, J. N.....	D-32	Schneider, C. L.....	D-41
Porter, J. P.....	D-32	Schneider, G. W.....	D-45
Potter, G. F.....	D-52	Schrader, A. L.....	D-44
Powell, R. E.....	D-46	Schroeder, W. A.....	D-38
Prebus, A. F.....	D-37	Schubert, B. G.....	D-30
Prevot, Pierre.....	D-48	Schulman, Edmund.....	D-60
Pridham, A. M. S.....	D-59	Scott, D. H.....	D-55
Pugsley, A. T.....	D-55	Seaver, F. J.....	D-33
Putnam, D. F.....	D-62	Seifriz, William.....	D-28
		Sellei, Helen.....	D-41
Rafay, S. A.....	D-57	Sellei, Joseph.....	D-41
Raistrick, Harold.....	D-37	Shands, H. L.....	D-48
Ramachandran, K.....	D-38	Shanor, Leland.....	D-33
Rands, R. D.....	D-56	Sharpe, R. H.....	D-53
Ratsek, J. C.....	D-54	Shavel, John, jr.....	D-37
Read, H. A.....	D-64	Shaw, J. K.....	D-45
Reddick, Donald.....	D-28	Showalter, R. K.....	D-59
Redman, Kenneth.....	D-30	Shreve, Forrest.....	D-35
Reed, E. P.....	D-57	Sideris, C. P.....	D-37
Reed, H. S.....	D-42, D-49	Siebenthal, Roger de.....	D-33
Rehder, Alfred.....	D-30	Sircar, N. N.....	D-49
Reid, E. H.....	D-35, D-52	Skirm, G. W.....	D-38
Reid, J. J.....	D-58	Skooog, Folke.....	D-41
Reuther, Walter.....	D-45, D-53	Small, James.....	D-41
Rhoades, H. F.....	D-64	Smith, A. C.....	D-28, D-30
Rhoades, M. M.....	D-47	Smith, A. H.....	D-33
Rice, R. R.....	D-40	Smith, F. F.....	D-54
Rich, Herbert.....	D-36	Smith, G. F.....	D-48
Ríos Uranga, Armando.....	D-61	Smith, H. S.....	D-48
Ripley, P. O.....	D-51	Smith, H. W.....	D-64
Roach, J. R.....	D-38	Smith, J. B.....	D-62
Roberts, J. L.....	D-64	Smith, S. G.....	D-41

	<u>Page</u>		<u>Page</u>
Smith, W. W.....	D-30	Tolman, Bion.....	D-57
Smock, R. M.....	D-45	Tompkins, C. M.....	D-54
Snell, W. H.....	D-33, D-60	Traub, H. P.....	D-61
Snyder, Elmer.....	D-51	Tseng, C. K.....	D-30
Southwick, Lawrence.....	D-44, D-45	Tucker, C. M.....	D-54, D-62
Spaulding, Perley.....	D-42	Tukey, H. B.....	D-51
Spochr, H. A.....	D-48	Turrill, W. B.....	D-30
Sprague, G. F.....	D-47		
Sreenivasa Rau, Y. Venkanna.....	D-38	Uphof, Johannes, C. T.....	D-52
Stachelin, Markus.....	D-50		
Stair, E. C.....	D-58, D-59	Valleau, W. D.....	D-58
Stanley, W. M.....	D-42, D-43	Vandorford, H. B.....	D-64
Stark, F. L., jr.....	D-42	Van Doren, Archie.....	D-45
Starker, T. J.....	D-60	Van Melle, P. J.....	D-54
Starr, M. P.....	D-43	Vaughn, D. B.....	D-32
Steere, W. C.....	D-36	Veihmeyer, F. J.....	D-50
Stephens, E. L.....	D-28	Venkatraman, T. S.....	D-57
Stephens, J. L.....	D-52	Verner, Leif.....	D-55
Steward, F. C.....	D-48	Voohees, R. K.....	D-33
Stewart, W. S.....	D-54		
Steyn, D. G.....	D-36	Wado, B. L.....	D-61
Stone, J. T.....	D-63	Wakefield, N. A.....	D-31
Stoughton, R. H.....	D-41	Walker, E. H.....	D-30
Stoutemyer, V. T.....	D-60	Wall, R. F.....	D-59
Strain, H. E.....	D-34	Wallace, J. G.....	D-35
Striker, M. M.....	D-63	Wallace, M. H.....	D-64
Strong, F. M.....	D-38	Wallace, Thomas.....	D-41
Struckmeyer, B. E.....	D-45, D-51	Walls, E. P.....	D-62
Stuart, N. W.....	D-54	Walp, Lee.....	D-34
Studhalter, R. A.....	D-60	Walt, S. J. van der.....	D-36
Svenson, H. K.....	D-35, D-49	Walther, Eric.....	D-54
Swamy, B. G. L.....	D-61	Waugh, J. G.....	D-55
Swartley, J. C.....	D-60	Weatherby, C. A.....	D-30
Sweeney, B. M.....	D-41	Weaver, J. E.....	D-52
Swingle, R. U.....	D-60	Webster, C. C.....	D-53
		Webster, J. E.....	D-51
Talbert, T. J.....	D-51	Weinmann, H.....	D-52
Teakle, L. J. H.....	D-64	Weiss, Freeman.....	D-54
Teply, L. J.....	D-38	Welles, G. M.....	D-63
Thadani, K. I.....	D-43	Went, F. W.....	D-41
Thimann, K. V.....	D-41	Werdermann, Erich.....	D-35
Thirumalachar, M. J.....	D-33	West, G. A.....	D-46
Thivy, Francesca.....	D-34	West, James.....	D-35
Thomas, Walter.....	D-41	Wester, R. E.....	D-37
Thompson, H. C.....	D-42	Wheeler, L. C.....	D-30
Thornberry, H. H.....	D-53	Wherry, E. T.....	D-31, D-35
Thornton, N. C.....	D-55	Whiffen, A. J.....	D-32
Tilford, P. E.....	D-54	White, J. W., jr.....	D-38
Tillson, A. H.....	D-30	White, L. A.....	D-58
Ting, S. V.....	D-62	White, N. E.....	D-33
Tisdale, W. H.....	D-43	White, W. L.....	D-33
Todd, F. E.....	D-38	Whitehead, E. I.....	D-64
Todhunter, E. N.....	D-38	Wilkinson, E. H.....	D-46

	<u>Page</u>
Wilkinson, T.....	D-43
Williams, L. O.....	D-30
Wilson, LeMoyne.....	D-64
Winkler, A. J.....	D-49
Wittwer, S. H.....	D-40
Wolf, Benjamin.....	D-62
Wolf, E. A.....	D-62
Wolfe, H. S.....	D-36
Woodman, R. M.....	D-62
Woodriff, Leslie.....	D-54
Woodward, C. H.....	D-56
Woodward, R. W.....	D-48

	<u>Page</u>
Wu, Su-Hsuen.....	D-41
Yarnell, S. H.....	D-51
Young, V. H.....	D-62
Younge, O. R.....	D-63
Youngs, E. O.....	D-64
Zechmeister, Laszlo.....	D-38
Zeller, S. M.....	D-51
Zimmerman, P. W.....	D-41, D-45
Zobell, I. D.....	D-64
Zscheile, T. P.....	D-38

UNITED STATES DEPARTMENT OF AGRICULTURE
Library



Vol. 1

September 1942

No. 3

The Bibliography of Agriculture is issued monthly
in five sections.

Section A, Agricultural Economics and Rural Sociology.
Supersedes Agricultural Economics Literature.

Section B, Agricultural Engineering. Supersedes Cur-
rent Literature in Agricultural Engineering.

Section C, Entomology. Supersedes Entomology Current
Literature.

Section D, Plant Science. Supersedes Plant Science
Literature.

Section E, Forestry. Continues Forestry Current
Literature, which ceased publication with v.7,
no.2, Mar.-Apr. 1940.

The edition of the Bibliography of Agriculture is so limited that
we are unable to fill all of the requests which we receive for it.
If you do not intend to file this publication permanently, please
return it to the Department of Agriculture Library so that it may be
made available to others.

Washington, D. C.

Abbreviations used in this publication are those listed in U. S. Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications. April 1939.

Call numbers following the citations are those of the U. S. Department of Agriculture Library unless otherwise noted.

The Department can supply only its own publications; other items cited may ordinarily be obtained from their respective publishers. Many of them are available for consultation in public or other libraries.

Photoprint or microfilm copies of any publication listed may be obtained from the Library. Order blanks giving prices and method of payment will be sent on request.

BIBLIOGRAPHY OF AGRICULTURE

SECTION D
PLANT SCIENCE

Vol. 1

September 1942

No. 3

This list is arranged under three main sections:
Botanical Science; Crop Plants, including diseases; Soils and Fertilizers

BOTANICAL SCIENCEGENERAL

- DARRAH, WILLIAM C. A brief account of the geology of South America.
Chron. Bot. 7(5): 207-211, illus. (map). Sept. 1942. Bibliography.
450 C46
- DARRAH, WILLIAM C. An introduction to the plant sciences. 332 pp.,
illus. New York, J. Wiley & sons, 1942. 463 D35
- MERRILL, ELMER D. Modern facsimile reproductions of rare technical
publications. Science 96(2486): 180-181. Aug. 21, 1942. 470 Sci2
- ROBBINS, WILLIAM J. Notes on the history of the Botanical garden and
its predecessors in New York City. N. Y. Bot. Gard. Jour. 43(512):
201-205. Aug. 1942. 451 N48J
- WEATHERWAX, PAUL. Plant biology. 455 pp., illus. Philadelphia,
W. B. Saunders co., 1942. 463 W37

BIOGRAPHY

- ASMOUS, VLADIMIR C. Eduard von Regel (1815-1892) and his contribution
to botany and horticulture in Russia. Chron. Bot. 7(5): 199-200,
port. Sept. 1942. 450 C46
- GARSDIE, SYDNEY. Baron Jacquin and the Schönbrunn gardens. Jour.
So. African Bot. 8(3): 201-224, pl. x (front.) July 1942. Bibli-
ography. 450 J8262
- MOLDENKE, HAROLD N. Henry Hurd Rusby. Chron. Bot. 7(5): 230-231.
Sept. 1942. 450 C46
- NORMAN, J. R. Dr. C. D. Sherborn. Nature 150(3796): 146-147.
Aug. 1, 1942. 472 N21
- Died June 22, 1942 within a week of his 81st birthday.
- POLUNIN, NICHOLAS. Robert William Theodore Gunther (R. T. Gunther).
Chron. Bot. 7(5): 231-232. Sept. 1942. 450 C46
- Gunther's chief publications of botanical or near botanical inter-
est, p. 232.
- PROF. R. WILLSTATER. Soc. Chem. Indus., Chem. & Indus. 61(34): 362,
port. Aug. 22, 1942. 382 M31C
- Died Aug. 3, 1942.
- STEELE, WILLIAM C. Francisco Mariano Pagan, 1896-1942. Bryologist
45(4): 73-76, port. (front.) Aug. 1942. 450 B84
- Publications of F. M. Pagan, p. 76.

SYSTEMATIC BOTANY

- ADAMSON, ROBERT S. Some Peninsula species of Uriginea. Jour. So. African Bot. 8(3): 237-242. July 1942. 450 J8262
U. arenosa, *U. exilis*, *U. flexuosa* n. spp.
- BROWN, JOHN R. Notes on haworthias. (continued) Cactus and Succulent Jour. 14(8): 110, illus. Aug. 1942. 451 C11
H. viscosa var. *subobtusa*.
- CAMARGO, FELISBERTO C. Pesquisas taxonômicas sobre os gêneros *Pseud-ananas* e *Ananas*. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 179-192, iii pl. 1942. Bibliography. 330.9 Am3008
- CARABIA, JOSÉ P. El genero *Croton* en Cuba. Caribbean Forester 3(3): 114-135. Apr. 1942. 1.9622 T2C23
 English summary.
- CARABIA, JOSÉ P. The question of *Croton eluteria* and *Croton cascarrilla*. Caribbean Forester 3(3): 110-113. Apr. 1942. 1.9622 T2C23
- CROIZAT, LEON. *Amenitates cactologicae*. Desert Plant Life 14(6): 114-117. July/Aug. 1942. 450 D45
 In deciding that *Astrophytum myriostigma* was published earlier than *Cereus callichoce* Gal. ex Schweid., considers dates of Lemaire's "*Cactearum aliquot novarum...*" (Jan. 1838) and "*Cactearum genera nova...*" (Jan. 1939) and of the Scheidweiler's two publications in the Bul. Acad. Roy. de Belg. v. 5, 1838 and v. 6, 1839.
- CROIZAT, LEON. New combinations and notes under *Echinofossulocactus* Lawrence. Cactus and Succulent Jour. 14(8): 111-112. Aug. 1942. 451 C11
- CROIZAT, LEON, and METCALF, FRANKLIN P. Novelties in Chinese *Phyllanthus*. Lingnan Sci. Jour. 20(2/4): 193-197, pl. 6-7. Aug. 27, 1942. 22.5 C16
P. chekiangensis, *P. kiangsiensis*, n. spp., *P. wilfordii* nom. nov.
- CURTIS'S botanical magazine, v. 163, pt. ii, iv. Col. pl. 9612-9622, 9634-9644. June 25, July 6, 1942. 450 C94
Rhododendron taggianum, *Aconitum nagarum*, *Rhododendron headfortianum*, *Torenia travancorica*, *Plectranthus fruticosus*, *Fritillaria pudica*, *Gaultheria tetramera*, *Catasetum warczewitzii*, *Azara integrifolia*, *Agapanthus inapertus*, *Berberis kawakamii*-*Mahonia lomariifolia*, *Fritillaria ehrharti*, *Rhododendron meddianum*, *Cymbidium schroederi*, *Gentiana trichotoma*, *Athrotaxis selaginoides*, *Salvia spathacea*, *Clematis nannophylla*, *Banksia serrata*, *Prangos ferulacea*, *Rubus calycinoideis*.
- DUCKE, ADOLPHE. New and noteworthy Sapotaceae of Brazilian Amazonia. Yale Univ. School Forestry. Trop. Woods 71: 7-25. Sept. 1, 1942. 99.08 YLTr
Casca doce or *páo doce* trees - The species of the genus *Pradosia* Laiais - The genus *Chromolucuma* Ducke - *Manilkara* Adans. or *Mimusops* L.
- DYAL, SARAH C. Studies in the family Valerianaceae. Cornell Univ. Abs. Theses 1941: 333-336. 1942. 241.8 C81
- GILLY, CHARLES L. Studies in the Sapotaceae: a new genus from eastern Cuba and a new species from Haiti. Yale Univ. School Forestry. Trop. Woods 71: 3-6. Sept. 1, 1942. 99.08 YLTr
Sheferodendron moaensis, S. (*Mimusops*) *mayarensis*; these two genera with *Mimusops* and *Manilkara* make up the four American genera in the *Mimusopoideae*.

- HODGE, WALTER H. A synopsis of the palms of Dominica. Caribbean Forester 3(3): 103-109, illus. Apr. 1942. 1.9622 T2C23
Geonoma hodgeorum, L. H. Bailey, n. sp.
- HOWARD, RICHARD A. Studies of the Icacinaceae IV-V. Gray Herbarium, Harvard Univ. Contrib. 142, 92 pp., 6 pl. Sept. 10, 1942. 451 G792
 IV. Consideration of the New World genera. V. A revision of the genus *Citronella* D. Don.
- KUMAR, L. S. S., and DEODIKAR, G. B. *Commelina alisagarensis* Kumar and Deodikar: a new species from Hyderagad, Deccan, India. Indian Acad. Sci. Proc. Sect. B 13(3): 168-170, illus. Mar. 1941. 513 In25B
- LINDSAY, GEORGE. A new *Mammillaria* species. Cactus and Succulent Jour. 14(8): 107-109, illus. Aug. 1942. 451 C11
M. craigii.
- METCALF, FRANKLIN P. Additional notes on *Acer*. Lingnan Sci. Jour. 20(2/4): 219-226, illus. Aug. 27, 1942. Literature. 22.5 C16
A. johndewardianum n. sp.
- METCALF, FRANKLIN P. Notes on *Chloranthus*, *Betula*, *Lithocarpus*, and *Quercus*. Lingnan Sci. Jour. 20(2/4): 215-218, illus. Aug. 27, 1942. 22.5 C16
C. kiangsiensis, *B. kwangsiensis* n. spp.
- MULLER, CORNELIUS H. The Central American species of *Quercus*. U. S. Dept. Agr. Misc. Pub. 477, 216 pp., incl. 124 pl. July 1942. Literature cited. 1 Ag84M
- MURRILL, WILLIAM A. Species making. Amer. Bot. 48(3): 79-82. July 1942. 450 Am33
- PIERCE, JOHN H. *Macroule*, a new genus of the Leguminosae (Sophoreae). Yale Univ. School Forestry. Trop. Woods 71: 1-2. Sept. 1, 1942. 99.08 YlTr
M. coutinhoi comb. nov. (*Ormosia*). See also note on the wood of *Macroule* by S. J. Record, pp. 32-33.
- PITTIER, HENRI. Notas dendrológicas de Venezuela. VII. Bol. Soc. Venezolana Cien. Nat. 8(51): 303-314, illus. Apr./June 1942. 516 C172
- RECORD, SAMUEL J. Identity of *acana*, *almique*, or *doncella* wood. Yale Univ. School Forestry. Trop. Woods 71: 25. Sept. 1, 1942. 99.08 YlTr
 Determined by C. L. Gilly as *Mahilkara jainiqui* but described as *Labourdonnaisia albescens* in *Timbers of Tropical America*.
- RESENDE, FLÁVIO, and POLLNITZ, KARL von. *Succulentas africanas*. II. Variedades novas de *Haworthia tessellata* Haw. Brotéria 11(2): 49-55. May 1, 1942. 410 B79C
- RICKER, PERCY L. Some Asiatic species of *Lespedeza*. Lingnan Sci. Jour. 20(2/4): 199-204. Aug. 27, 1942. 22.5 C16
 Nine new species.
- TIPPO, OSWALD. A modern classification of the plant kingdom. Chron. Bot. 7(5): 203-206. Sept. 1942. 450 C46
- WALKER, EGBERT H. Four new species of *Ardisia* (Myrsinaceae) from Indo-China. Lingnan Sci. Jour. 20(2/4): 185-192, illus. Aug. 27, 1942. 22.5 C16
A. petelotii, *A. prionota*, *A. botryosa*, *A. perpendicularis*.

- WHEELER, LOUIS C. . *Hugelia* Bentham preoccupied. Wash. Acad. Sci. Jour. 32(8): 237-239. Aug. 15, 1942. 500 W276J
The proper name, provided it be deemed worthy of generic rank, is *Eriastrum* Wootton & Standley, 1913.
- WILLIAMS, LOUIS O. A new *Maxillaria* from Mexico. Amer. Orchid Soc. Bul. 11(4): 133, pl. 4. Sept. 1, 1942. 80 Am329
M. oestlundiana.

FERNS AND FERN ALLIES

- BLASDALE, WALTER C. Some xerophytic ferns worthy of cultivation. Natl. Hort. Mag. 21(3): 111-116, illus. July 1942. 80 N216
Most of the species are in the genera *Pellaea*, *Cheilanthes* and *Notholaena*, and native to western United States.
- TRYON, ROLLA M., JR. A revision of the genus *Doryopteris*. Gray Herbarium, Harvard Univ. Contrib. 143, 80 pp., illus. Sept. 10, 1942. 451 G792
- WILLIAMS, ROBERT H. Physiological studies on the germination of spores of *Polypodium aureum*. Cornell Univ. Abs. Theses 1941: 373-376. 1942. 241.8 C81

FUNGI

- BITANCOURT, AGESILAU A., and JENKINS, ANNA E. New discoveries of *Myriangiales* in the Americas. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 149-172, x pl. 1942. Literature cited. 330.9 Am3008
Ten species of *Elsinoë*, five of which are described under the imperfect stage (*Sphaceloma*).
- CAMARA, EMMANUELE de S. da, OLIVEIRA, ANTÔNIO L. B. de, and GOMES de LUZ, CARLOS. Uredales aliquot Lusitaniae. (continued) Agron. Lusitana (Portugal) 2(2, 4): 113-167, 237-377. 1940. References. 105.7 Ag8
- CHARLES, VERA K. A preliminary check list of the entomogenous fungi of North America. Insect Pest Survey. Bul. 21(9, sup. [2]): 707-785, processed. Nov. 10, 1941 (Rec'd Feb. 1942). Selected references. 1.9 En831B
- CHAUDHURI, HARAPRASAD, and QURAISHI, A. R. A study of the fungal endophyte of some *Anthoceros erectus* Kashyap. Indian Acad. Sci. Proc. Sect. B 13(4): 255-260, pl. xvi. Apr. 1941. Literature cited. 513 In25B
Fungus not identified.
- CUTTER, VICTOR M., JR. A cytological investigation of fifteen species of the *Mucorales*. Cornell Univ. Abs. Theses 1941: 324-328. 1942. 241.8 C81
- DODGE, BERNARD O. Genetic interpretations of cultural variations in the fungi. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 199-206. 1942. 330.9 Am3008
- GIESE, ARTHUR C., and TATUM, EDWARD L. The effect of some vitamins of the B-complex on respiration of mutants of *Neurospora*. Collecting Net 17(5): 86-88. Aug. 29, 1942. Literature cited. 442.8 C68
- GOODSPEED, THOMAS H. Experimental induction of heritable and other alterations in the fungus *Neurospora tetrasperma*. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 223-229. 1942. Literature. 330.9 Am3008

- GRAY, ELIZABETH G. *Phialea mucosa* sp. nov., the blind-seed fungus. Brit. Mycol. Soc. Trans. 25(3): 329-333. June 19, 1942. Literature cited. 451 B76
- KEYWORTH, W. G. The occurrence in artificial culture of tremelloid outgrowths on the pilei of *Coprinus*. Brit. Mycol. Soc. Trans. 25(3): 307-310, pl. xi. June 19, 1942. References. 451 B76
Result of condition of air under which cultures were grown.
- LEDINGHAM, R. J. Observations on antagonism in inoculation tests of wheat with *Helminthosporium sativum* P. K. & B., and *Fusarium culmorum* (W. G. Sm.) Sacc. Sci. Agr. 22(11): 688-697. July 1942. References. 7 Sci2
- MACRAE, RUTH. Interfertility studies and inheritance of luminosity in *Panus stypticus*. Canad. Jour. Res. Sect. C (Bot. Sci.) 20(8): 411-434, iv pl. Aug. 1942. References. 470 C16C
- OVERHOLTS, LEE O. The Polyporaceae of Pennsylvania. III. The genus *Poria*. Pa. Agr. Expt. Sta. Tech. Bul. 418, 64 pp. State College, Jan. 1942. 100 P381
- PETCH, THOMAS. The entomogenous fungi of Mauritius. Mauritius Inst. Bul. 2(1): 14-20. Jan. 1941. 515 M44
Torrubiella blattae n. sp.
- PETCH, THOMAS. Notes on entomogenous fungi. 161-180. Brit. Mycol. Soc. Trans. 25(3): 250-265. June 19, 1942. 451 B76
Calonectria truncata, *Hymenostilbe aphidis*, *Isaria sphaerocephala*, *Cephalosporium subclavatum* n. spp.
- RAMAKRISHNAN, TARACAD S. Studies in the genus *Colletotrichum*. 1. Saltation in *Colletotrichum capsici* (Syd.) Indian Acad. Sci. Proc. Sect. B 13(1): 60-70, pl. 1. Jan. 1941. References. 513 In25B
- RAMSBOTTOM, JOHN. *Gloeosporium nicolai* Aggéry and *Gloeosporium polypodii* Aggéry. Brit. Mycol. Soc. Trans. 25(3): 334. June 19, 1942. 451 B76
Gloeosporium nicolai is *Milesia scolopendrium* and *G. polypodii*, *M. polypodii*, the form of the latter on *Aspidium aculeatum* is probably *M. whitei*.
- RAMSBOTTOM, JOHN. *Macowania*, *Hypocharnum*, or *Macowanites*? Brit. Mycol. Soc. Trans. 25(3): 335-336. June 19, 1942. 451 B76
Proposes that *Macowanites* (*M. agaricinus* as type) be conserved.
- RAMSBOTTOM, JOHN. *Volvaria surrecta* (Knapp) comb. nov. Brit. Mycol. Soc. Trans. 25(3): 326-328, illus. June 19, 1942. 451 B76
- RAYCHAUDHURI, S. P. Economic uses of fungi. Sci. and Cult. (Calcutta) 7(12): 594-596, illus. June 1942. References. 475 Sci24
- REZENDE PINTO, MANOEL C. de. Hymeniales de Portugal. (continued) Brotéria 11(2): 62-80. May 1, 1942. 410 B79C
- RODRIGUEZ SARDIÑA, JUAN, and URQUIJO LANDALUZE, PEDRO. Notas sobre un caso de parasitismo de *Empusa* sp. sobre pulgones. La Coruña Estac. Fitopat. Agr. Mem. 14: 21-26, illus. 1941. Bibliography. 464.9 C81
- TIMS, EUGENE C. Method of obtaining pure cultures of *Corticium stevensii* from sclerotia. Phytopathology 32(9): 824-825. Sept. 1942. 464.8 P56
- WATERHOUSE, GRACE M. Some water moulds of the Hogsmill river collected from 1937 to 1939. Brit. Mycol. Soc. Trans. 25(3): 315-325, illus. June 19, 1942. References. 451 B76

CRYPTOGAMS OTHER THAN FUNGI

- APTE, V. V., and SANE, P. V. Two new species of *Aspiromitus* St. from Bor Ghat (Lonavla and Khandala). Univ. Bombay. Jour. no. 11, Biol. Sci. (n.s., v. 10, pt. 5): 80-83, 11 pl. Mar. 1942. References. 513 B633
- A. khandalensis*, *A. fergussoni*.
- CHASE, FLORENCE M. Useful algae. Smithsn. Inst. Ann. Rpt. 1940/41: 401-452, 9 pl. 1942. Bibliography. 500 Sm6R
- DOWSON, WALTER J. On the generic name of the gram-positive bacterial plant pathogens. Brit. Mycol. Soc. Trans. 25(3): 311-314. June 19, 1942. References. 451 B76
- Transfers *Phytomonas fascians* Tilford, *P. flaccumfaciens* (Hedges) Bergey, *P. insidiosa* (McCulloch) Bergey, *P. michiganensis* (E. Smith) Bergey, *P. sepedonica* (Spieckermann) Magrou, and *P. rathayi* (E. Smith) Bergey to *Corynebacterium* with same specific names.
- FRITSCH, FELIX E. The interrelations and classification of the Myxophyceae (Cyanophyceae). New Phytol. 41(2): 134-148, illus. July 31, 1942. References. 450 N42
- GONÇALVES da CUNHA, A. Quelques observations sur la distribution géographique des characées au Portugal. Brotéria 11(2): 56-61. May 1, 1942. 410 B79C
- HARVEY, HARLOW W. Production of life in the sea. Cambridge Phil. Soc. Biol. Rev. 17(3): 221-246. July 1942. References. 442.9 C14
- HUMM, HAROLD J. Seaweeds at Beaufort, North Carolina, as a source of agar. Science 96(2488): 230-231. Sept. 4, 1942. 470 Sci2
- Experiments with *Gracilaria confervoides* and *Hypnea musciformis*, best results from the first.
- ISAAC, WILLIAM EDWYN. Seaweeds of possible economic importance in the Union of South Africa. Jour. So. African Bot. 8(3): 225-236, illus. July 1942. Literature cited. 450 J8262
- JANE, FRANK W. *Harpochytrium tenuissimum* Korsch. New Phytol. 41(2): 91-100, illus. July 31, 1942. References. 450 N42
- MANDELS, GABRIEL R. A quantitative study of chlorosis induced in *Chlorella* by sulfur or nitrogen deficiency. Cornell Univ. Abs. Theses 1941: 347-349. 1942. 241.8 C81
- PAGÁN, FRANCISCO M. Catalogue of the Hepaticae of Guadeloupe. Bryologist 45(4): 76-110. Aug. 1942. 450 B84
- PAGÁN, FRANCISCO M. A new species of *Dendroceros* from Puerto Rico. Bryologist 45(4): 111-115, illus. Aug. 1942. 450 B84
- D. canaliculatus*.
- RICE, MABEL A. The mosses and liverworts of Nantucket. Bryologist 45(4): 115-124. Aug. 1942. Literature cited. 450 B84
- RUNYON, ERNEST H. Aggregation of separate cells of *Dictyostelium* to form a multicellular body. Collecting Net 17(5): 88. Aug. 29, 1942. 442.8 C68
- SANE, P. V. Observations on some species of *Anthoceros* Linn. from Poona and the neighbouring hills of the western Ghats. Univ. Bombay. Jour. no. 11, Biol. Sci. (n.s., v. 10, pt. 5): 86-91, v pl. Mar. 1942. References. 513 B633
- A. sahyadrensis*, *A. dixiti* n. spp.
- SUTLIFFE, DOROTHY. New records of Sierra Hepaticae. Bryologist 45(4): 124. Aug. 1942. 450 B84
- Anthelia julacea*, *Leiocoloa obtusa* and *Marsupella sphacelata* var. *erythrorhiza*, new for California.

- TSENG, CHENG K. Two new species of *Wrangelia* from China. Lingnan Sci. Jour. 20(2/4): 261-270, illus., pl. 9-10. Aug. 27, 1942.
Literature cited. 22.5 C16
W. hainanensis, W. tayloriana.

GEOGRAPHIC BOTANY AND ECOLOGY

- ACOSTA SOLIS, MISAEEL. Contribuciones a la geobotánico ecuatoriana. Anotaciones sobre la vegetación del norte de Quito: desde Cotacollao y San Antonio hasta el río Guayllabamba. I-II, cap. 2-5. Univ. Cent. Ecuador. Anales 67(313): 5-83, 15 pl., 4 fold. tabs. Jan./Mar. 1942. References. 516 Ec9
English summary.
- ACOSTA SOLIS, MISAEEL. Maderas más conocidas y usadas en la Prov. de Esmeraldas (Ecuador). Clasificación por la dureza y compatibilidad de sus fibras, por la duración y por sus usos y aplicaciones. Maderil 14(167): 13-16. May 1942. 99.82 M26
- ALMEIDA, JOSEPH F. R. d'l., and DESAI, JAYANT L. A contribution to the study of the ecological foliar anatomy of Indian plants. Univ. Bombay. Jour. no. 11, Biol. Sci. (n.s., v. 10, pt.5): 1-58, illus. Mar. 1942. References. 513 B633
Material obtained from Salsette north of Bombay, an area representative of a typical monsoon region.
- ARNST, ALBERT. Vegetal stabilization of Oregon coastal dune areas. Northwest Sci. 16(3): 59-67. Aug. 1942. 470 N81
Clatsop Plains dunes area extends from mouth of Columbia River south to Gearhart.
- BARBOUR, WILLIAM R. Forest types of tropical America. Caribbean Forester 3(4): 137-150. July 1942. 1.9622 T2C23
- CLUTE, WILLARD N. *Plantago cordata* in Indiana. Amer. Bot. 48(3): 95. July 1942. 450 Am33
- DUGAND, ARMANDO. Estudios geobotánicos colombianos: descripción de una sinecia típica en la subxerofitia del litoral caribe. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 207-217. 1942. 330.9 Am3008
- FERNALD, MERRITT L. *Digitalis purpurea* naturalized in Newfoundland. Amer. Pharm. Assoc. Jour. 31(8): 248. Aug. 1942. 396.9 Am33J
- FOGG, JOHN M., JR. Eastern Asiatic plants in eastern American gardens. Pa. Univ. Morris Arboretum. Bul. 4(2): 15-20. Aug. 1942. 450 P383
- GREGOR, JAMES W. The units of experimental taxonomy. Chron. Bot. 7(5): 193-196. Sept. 1942. 450-C46
- HODGE, WALTER H. Plants used by the Dominica Caribs. N. Y. Bot. Gard. Jour. 43(512): 189-201, illus. (incl. map). Aug. 1942. 451 N48J
- ITURBE, JUAN. Biología de la llanura venezolana. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 65-82. 1942. Bibliography. 330.9 Am3008
- JEPSON, WILLIS L. Early botanical ascent of Mount Shasta. Sierra Club. Bul. 27(4): 23-30. Aug. 1942. Bibliography. 500 Sa53
- MOLDENKE, HAROLD N. Eriocaulaceae, Avicenniaceae, Verbenaceae. 87 pp. Dallas, Southern Methodist university, 1942. (Flora of Texas, ed. by C. L. Lundell, v. 3, pt. 1.) 455.63 L97
- PINTO da SILVA, A. R. Notas soltas sôbre a flora Portuguesa. I. Agron. Lusitana (Portugal) 2(3): 225-231. 1940. 105.7 Ag8

- POPEHOE, WILSON. Plant resources of Honduras. Chron. Bot. 7(5): 217-219. Sept. 1942. Literature cited. 450 C46
- SALVOZA, FELIPE M., and LAGRIMAS, MARTIN. Check list of the trees of the Philippines, with brief notes on their uses II-IV. Philippine Jour. Forestry 4: 63-104, 191-218, 285-313. 1941. 99.8 P53
- SHREVE, FORREST. The life forms and flora of the North American desert. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 125-132. 1942. 330.9 Am3008
- Extends from eastern Oregon to southern Puebla, from the Pacific coast in Baja, California to the Sierra Madre Oriental.
- STEVENSON, NEIL S. Forest associations of British Honduras. I. Orbignya-Dialium-Virola association. Caribbean Forester 3(4): 164-172, illus. July 1942. 1.9622 T2C23
- URIBE, JOAQUÍN A. Flora de Antioquia...ampliada y editada por Lorenzo U. Uribe. 382 pp., 25 pl. Medellín, 1940. 457.5 Ur3
- Date on cover, 1941.
- WHITE, ORLAND E. Temperature reaction, mutation, and geographical distribution in plant groups. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 287-294. 1942. Literature cited. 330.9 Am3008
- ZWALUWENBURG, REYER H. van. Notes on the temporary establishment of insect and plant species on Canton Island. Hawaiian Planters Rec. 46(2): 49-52, illus. 1942. 25 H311

ECONOMIC BOTANY

- CLARKSON, ROSETTA E. Herbs, their culture and uses. 226 pp., illus. N. Y., Macmillan co., 1942. 97.21 C56H
- DACHNOWSKI-STOKES, ALFRED P. Sphagnum moss for use in surgical dressings. Sci. Monthly 55(3): 291-292. Sept. 1942. 470 Sci23
- ELMER, L. A. Quinoa (Chenopodium quinoa). East African Agr. Jour. 8(1): 21-23. July 1942. 24 Ea74
- SMALL, JAMES. Tumeric, a pocket-lens study. Food 11(131): 221-224, illus. Aug. 1942. 389.8 F738

PALEOBOTANY

- JANSSEN, RAYMOND E. Fossil forests of the great coal age. Sci. Monthly 55(3): 159-208, illus. Sept. 1942. 470 Sci23
- MUKHERJEE, ANIL. Identification of fossil wood from the Lalmai range in Comilla, Bengal. Sci. and Cult. (Calcutta) 7(11): 572-574, illus. May 1942. Literature. 475 Sci24
- Glutoxylon sp. and not a Dipterocarpoloxylon as identified by J. Sen.
- RENNIE, JOHN V. L., and MOUNTAIN, E. D. Fossil flora of the Witteberg series. Roy. Soc. So. Africa. Trans. 29(2): 59-62. July 1942. References. 515 So8A

TECHNIQUE

- BURTON, ELI F., and KOHL, WALTER H. The electron microscope. 233 pp., illus. N. Y., Reinhold publishing corp., 1942. General bibliography. 440 B95

CHEMISTRY

- BENNE, ERWIN J. Report on chlorophyll and carotene in plant tissue. Assoc. Off. Agr. Chem. Jour. 25(3): 573-591, illus. Aug. 15, 1942. Literature cited. 381 As7

- BUTLER, LILLIAN I., and ALLEN, H. O. Report on copper and cobalt in plants. Assoc. Off. Agr. Chem. Jour. 25(3): 567-573. Aug. 15, 1942. 381 As7
- CHATTERJEE, R. Chemical studies on the Himalayan species of Berberis. Sci. and Cult. (Calcutta) 7(12): 619. June 1942. Bibliographical footnotes. 475 Sci24
- With notes on classification of species containing berberine and those containing umbellatine.
- COWLING, HALE, and BENNE, ERWIN J. Report on zinc and iron in plants. Assoc. Off. Agr. Chem. Jour. 25(3): 555-567. Aug. 15, 1942. 381 As7
- ELLIS, W. J., and LENNOX, F. G. A proteolytic enzyme in the latex of the weed, *Euphorbia lathyris* (caper spurge). Austral. Jour. Sci. 4(6): 187-188. June 1942. References. 475 Au72
- Authors propose the name "euphorbain" for this new enzyme.
- FOLKERS, KARL, KÖNIUSZY, FRANK, and SHAVEL, JOHN, JR. Erythrina alkaloids. XIII. Studies on the constitution of erythriline, erythramine, and erythratine. Amer. Chem. Soc. Jour. 64(9): 2146-2151. Sept. 1942. 381 Am33J
- FOX, DENIS L. The carotenoid pigments of Cryptogams. Chron. Bot. 7(5): 196-198. Sept. 1942. 450 C46
- HAGEMAN, RICHARD H., McHARGUE, JAMES S., and HODGKISS, WILLIAM S. Report on iodine and boron. Assoc. Off. Agr. Chem. Jour. 25(3): 552-555. Aug. 15, 1942. 381 As7
- HISCOX, DOROTHY J. Determination of sugar in plant material. Canad. Chem. and Process Indus. 26(8): 496, 498, 506. Aug. 1942. References. 381 C16
- MARION, LEO. The isolation of cicutin from *Cicuta maculata* L. Canad. Jour. Res. Sect. B (Chem. Sci.) 20(8): 157-160. Aug. 1942. References. 470 C16B
- Author proposes name cicutin for crystalline form of one of constituents of root.
- PYKE, MAGNUS, and MELVILLE, RONALD. Vitamin C in rose hips. Biochem. Jour. 36(3/4): 336-339. Apr. 1942. References. 382 B52

GENETICS AND BREEDING

- DARLINGTON, CYRIL D. The polygene concept. Nature 150(3796): 154. Aug. 1, 1942. 472 N21
- KHAN, REAYAT. Artificial induction of polyploidy, with special reference to colchicine. (continued) Sci. and Cult. 7(11): 528-532. May 1942. References. 475 Sci24
- SAX, KARL. Diffusion of gene products. Natl. Acad. Sci. Proc. 28(8): 303-306, illus. Aug. 15, 1942. Literature cited. 500 N21P
- STOUT, ARLOW B., and CHANDLER, CLYDE. Hereditary transmission of induced tetraploidy and compatibility in fertilization. Science 96(2489): 257-258. Sept. 11, 1942. 470 Sci2
- Experiments with *Petunia axillaris*.
- THOMPSON, ROSS C. An amphidiploid *Lactuca*. Produced through non-reduction in F_1 hybrids. Jour. Hered. 33(7): 253-264, illus. July 1942. Literature cited. 442.8 Am3
- Life history of *Lactuca spicata* ($N = 17$) with *L. indica* ($N = 9$) was studied in detail.

PHYSIOLOGY AND MORPHOLOGY

- BATEN, WILLIAM D. A comparison of annual and biennial inflorescences of *Daucus carota* (wild carrot). *Biometrika* 32(1): 82-87. Jan. 1941. 442.8 B522
- BHARUCHA, F. R., and NAVALKAR, B. S. Studies in the ecology of mangroves. III. The chloride-content of sea-water, soil-solution and the leaf cell-sap of the mangroves. *Univ. Bombay. Jour. Science* no. 11, *Biol. Sci.* (n.s., v.10, pt.5): 97-106. Mar. 1942. References. 513 B633
- BINKLEY, ALMOND M. Use of 'hormones' becoming an important tool in the growing of horticultural plants. *Colo. Agr. Expt. Sta. Colo. Farm Bul.* 4(3): 18-21, illus. July/Sept. 1942. 100 C715
- BONNER, JAMES. The present status of research on growth promoting substances. *West. Shade Tree Conf. Proc.* (1940) 7: 71-77. [1941] 99.9 W521
- BONNER, JAMES. A reversible growth inhibition of isolated tomato roots. *Natl. Acad. Sci. Proc.* 28(8): 321-324. Aug. 15, 1942. Literature. 500 N21P
- BRAIN, EDITH D. Studies in the effects of prolonged rotations of plants on a horizontal klinostat. III. Physiological reactions in the hypocotyl of *Lupinus albus*. *New Phytol.* 41(2): 81-90, illus. July 31, 1942. References. 450 N42
- CÂMARA, ANTONIO. A centrifugação fonte de variações cromosômicas. *Agron. Lusitana* (Portugal) 2(2): 181-202, illus., 3 pl. 1940. Literature cited. 105.7 Ag8
Centrifuging pollen mother cells of *Rhoeo discolor*, an effective method of producing chromosomal variations. English summary.
- CARLL, W. CURTIS. Temperature control in a Wardian case. *Amer. Orchid Soc. Bul.* 11(4): 125-126, illus. Sept. 1, 1942. 80 Am329
- EAKIN, ROBERT E., and EAKIN, ESTHER A. A biosynthesis of biotin. *Science* 96(2486): 187-188. Aug. 21, 1942. Bibliographical footnotes. 470 Sci2
Aspergillus niger used in tests.
- EATON, FRANK M. Sand culture methods. *Chron. Bot.* 7(5): 200-201. Sept. 1942. References. 450 C46
- FRIEDMAN, BERNARD A., and FRANCIS, THOMAS, JR. Gall formation by *Phytomonas tumefaciens* extract and indole-3-acetic acid in cultures of tomato roots. *Phytopathology* 32(9): 762-772, illus. Sept. 1942. Literature cited. 464.8 P56
- GIESE, ARTHUR C. Stimulation of yeast respiration by ultraviolet radiations. *Jour. Cell. and Compar. Physiol.* 20(1): 35-46. Aug. 20, 1942. Literature cited. 444.8 J822
- INMAN, ONDESS L. What the study of the green plant has taught us concerning a mechanism of photosynthesis. *Amer. Sci. Cong.* 8th, Washington, 1940. *Proc.* 3: 239-242. 1942. 330.9 Am3008
- KAUSIK, S. B. Structure and development of the staminate flower and the male gametophyte of *Enalus acoroides* (L. fil.), Steud. *Indian Acad. Sci. Proc. Sect. B* 14(1): 1-16, illus. July 1941. Literature cited. 513 In25B

- KHAN, REAYAT. Artificial induction of polyploidy with special reference to colchicine. *Sci. and Cult. (Calcutta)* 7(10): 480-485. Apr. 1942. 475 Sci24
- MAGNESS, JOHN R. Water relations to plant growth. *Natl. Shade Tree Conf. Proc. (1941)* 17: 35-45. [1942?] 99.9 N218
- MARSHALL, LAWRENCE. The effect of a detergent in the soilless production of sweet potato slips. *Pa. Acad. Sci. Proc.* 16: 39-40. 1942. 500 P383
Tergitol.
- MARSHALL, LAWRENCE. Some advantages of the sweet potato in experimentation. *Pa. Acad. Sci. Proc.* 16: 42-43. 1942. 500 P383
- MARSHALL, LAWRENCE. Tergitol lowers the bacterial count in hydroponic cultures. *Pa. Acad. Sci. Proc.* 16: 40-41. 1942. 500 P383
- PAL, BENJAMIN P., and SURANARAYANA MURTY, G. Studies in the vernalization of Indian crop plants. I. Preliminary experiments on gram, wheat, chilli and soybean. *Indian Jour. Genet. & Plant Breed.* 1: 61-86, pl. viii-x. Dec. 1941. References. 64.8 In2
- RAGHAVAN, TIRUVILANDUR S., and VENKATASUBHAN, K. R. Contribution to the cytology of *Tridax procumbens* Linn. *Indian Acad. Sci. Proc. Ser. B* 13(2): 85-108, illus., pl. iv-v. Feb. 1941. Literature cited. 513 In25B
- RAGHAVAN, TIRUVILANDUR S., and SRINIVASAN, V. K. Morphological and cytological studies in the *Scrophulariaceae*. III-IV. *Indian Acad. Sci. Proc. Sect. B* 13(1, 4): 24-32, 229-234, illus. Jan., Apr. 1941. Literature cited. 513 In25B
- III. A contribution to the life-history of *Ilysanthes parviflora* Benth. IV. The development of the embryo-sac and endosperm in *Scoparia dulcis* Linn.
- ROBBINS, WILLIAM J. Vitamins as growth substances for plants. *Amer. Sci. Cong. 8th, Washington, 1940. Proc.* 3: 277-278. 1942. 330.9 Am3008
- SHANNON, EDWARD L. A study of the production of root hairs by aquatic plants. *Cornell Univ. Abs. Theses 1941*: 360-362. 1942. 241.8 C81
- SNOW, ROBERT. Further experiments on whorled phyllotaxis. *New Phytol.* 41(2): 108-124, illus. July 31, 1942. References. 450 N42
- SNOW, ROBERT. On the causes of regeneration after longitudinal splits. *New Phytol.* 41(2): 101-107, illus. July 31, 1942. References. 450 N42
- Experiments made mainly on hypocotyls of sunflowers.
- STRAUS, WERNER. Recherches sur les chromatophores. II. Isolement et propriétés des chromatophores ultramicroscopiques de carottes et de feuilles d'épinards. *Helvetica Chim. Acta* 25(3): 489-497. May 1942. 385 H36
- STRAUS, WERNER. Ueber chromatophoren. I. Reinigung und analyse der farbstoffträger aus mohrrüben und spinatblättern. *Helvetica Chim. Acta* 25(1): 179-188. Feb. 1942. 385 H36
- SWANSON, CARL P. The effects of ultraviolet and X-ray treatment on the pollen tube chromosomes of *Tradescantia*. *Genetics* 27(5): 491-503, pl. Sept. 1942. Literature cited. 442.8 G28
- Running title: Chromosome breakage.
- SWARTLEY, JOHN C., and CHADWICK, LEWIS C. Effects of synthetic growth substances on cuttings, seeds, and transplants. *Ohio Agr. Expt. Sta. Bimo. Bul.* 27(217): 125-144. Wooster, July/Aug. 1942. 100 Oh3S

- TINGLEY, MARY A. Concentration gradients in plant exudates with reference to the mechanism of translocation. Cornell Univ. Abs. Theses 1941: 371-372. 1942. 241.8 C81
- TRELEASE, SAM F., GREENFIELD, SYDNEY S., and DiSOMMA, AUGUST A. Absorption of selenium by corn from Astragalus extracts and solutions containing proteins. Science 96(2488): 234-235. Sept. 4, 1942. 470 Sci2
- WHITE, PHILIP R. Plant tissue cultures: a new technique in experimental science. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 135-142, illus., ii pl. 1942. 330.9 Am3008
- ZIMMERMAN, PERCY W. Studies at Boyce Thompson institute involving the effects of gases on growth of plants. Chron. Bot. 7(5): 206-207. Sept. 1942. 450 C46
- With special reference to sulphur dioxide.

PATHOLOGY

(For diseases of a particular plant see under crop subheads)

- AMERICAN PHYTOPATHOLOGICAL SOCIETY. Report of the twenty-sixth annual meeting of the Pacific division of the American phytopathological society. Phytopathology 32(9): 826-830. Sept. 1942. 464.8 P56
- With abstracts.
- ARKANSAS AGRICULTURAL EXPERIMENT STATION. Controlling plant diseases and insects major problems. Ark. Agr. Expt. Sta. Ann. Rpt. (1940/41) 53 (Bul. 417): 32-41, illus. Fayetteville. June 1942. 100 Ar42
- ARMSTRONG, GEORGE M., HAWKINS, B. S., and BENNETT, CHARLIE C. Cross inoculations with isolates of Fusaria from cotton, tobacco, and certain other plants subject to wilt. Phytopathology 32(8): 685-698. Aug. 1942. Literature cited. 464.8 P56
- BOYD, ORAN C. Recent observations on plant diseases in Massachusetts. Plant Dis. Rptr. 26(15): 334-337. Aug. 15, 1942. 1.9 P69P
- DENNIS, R. W. G., and FOISTER, CHARLES E. List of diseases of economic plants recorded in Scotland. Brit. Mycol. Soc. Trans. 25(3): 266-306, map. June 19, 1942. References. 451 B76
- DYKSTRA, THEODORE P., and Du BUY, HERMAN. Preserving plant viruses in vitro by means of a simplified lyophile apparatus. Science 96(2486): 189-190, illus. Aug. 21, 1942. 470 Sci2
- FLORIDA AGRICULTURAL EXPERIMENT STATION. Plant pathology. Fla. Agr. Expt. Sta. Ann. Rpt. 1940/41: 103-115, illus. [1942] 100 F66S
- Also reports of Potato disease laboratory (pp. 116-121), Citrus station (pp. 138-156), Everglades station (pp. 157-178), Sub-tropical station (pp. 192-204, illus.)
- FRAMPTON, VERNON L., LINN, MANSON B., and HANSING, EARL D. The spread of virus diseases of the yellow type under field conditions. Phytopathology 32(9): 799-808, illus. Sept. 1942. 464.8 P56
- HAENSLER, CONRAD M. New varieties bring new disease problems. N. J. Agr. Expt. Sta. Plant Dis. Notes 20(4): 15-18. July 1942. 464.9 N46P
- San Morzano tomato and maize as examples.
- HILBORN, MERLE T. 1939, 1940, and 1941 additions to the list of causes of fungous and bacterial plant diseases in Maine. Plant Dis. Rptr. 26(16): 347-349. Sept. 1, 1942. 1.9 P69P

- HOERNER, GODFREY R. A study of spreaders for use on hops in the field control of downy mildew. *Phytopathology* 32(9): 820-823, illus. Sept. 1942. 464.8 P56
- HOLMES, FRANCIS O. A comment on Dr. Johnson's "Virus nomenclature and committees." *Chron. Bot.* 7(5): 201-203. Sept. 1942. 450 C46
- HORSFALL, JAMES G. Plant pathology and botany. Conn. (State) Agr. Expt. Sta. Ann. Rpt. 1940/41 (Bul. 452): 19-22. New Haven, 1942. 100 C76St
- KUMAR, L. S. S., and SOLOMON, SAMUEL. A list of hosts of some phanerogamic root-parasites attacking economic crops in India. *Indian Acad. Sci. Proc. Sect. B* 13(3): 151-156. Mar. 1941. References. 513 In25B
- Sopubia delphinifolia* and four species of *Striga*.
- LIVINGSTON, J. E. Plant diseases occurring in Nebraska prior to July 18, 1942. *Plant Dis. Rptr.* 26(16): 368-370. Sept. 1, 1942. 1.9 P69P
- MOORE, W. C. Organization for plant pathology in England and Wales. Retrospect and prospect. *Brit. Mycol. Soc. Trans.* 25(3): 229-245. June 19, 1942. 451 B76
- NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BRANCH. Plant diseases. (continued) *Agr. Gaz. N. S. Wales* 53(6): 281-284, illus. June 1, 1942. 23 N472
- Vegetable seed treatments. Melanose of citrus. Chemical eradication of crown gall.
- SMITS, B. L., and PETERSON, W. J. Carotenoids of telial galls of *Gymnosporangium juniperivirginianae* Lk. *Science* 96(2487): 210-211. Aug. 28, 1942. 470 Sci2
- STEVENS, NEIL E. Some estimates of losses from plant diseases in the United States prior to 1917. *Plant Dis. Rptr.* 26(16): 349-356. Sept. 1, 1942. 1.9 P69P
- TEXAS AGRICULTURAL EXPERIMENT STATION. Plant pathology and physiology [report]. *Tex. Agr. Expt. Sta. Ann. Rpt.* (1941) 54: 64-73. College Station, [1942] 100 T31S
- WAKSMAN, SELMAN A., HORNING, ELIZABETH S., and SPENCER, ERNEST L. The production of two antibacterial substances, fumigacin and clavacin. *Science* 96(2487): 202-203. Aug. 28, 1942. 470 Sci2
- From *Aspergillus fumigatus* and *A. clavatus*.
- WHITE, PHILIP R., and BRAUN, ARMIN C. A cancerous neoplasm of plants. Autonomous bacteria-free crown-gall tissue. *Cancer Res.* 2(9): 597-617, illus. Sept. 1942. References. 448.8 C16
- Experiments with *Helianthus annuus*.

WEEDS AND POISONOUS PLANTS

- MINSHALL, W. H. Hydrogen-ion concentration and weed control. *Sci. Agr.* 22(11): 647-658. July 1942. References. 7 Sci2
- SYME, P. S. Spread of tutsan on hill pastures. *New Zeal. Jour. Agr.* 64(6): 409-410, illus. June 15, 1942. 23 N48J
- Hypericum androsaemum*.

CROP PLANTS
(Includes Diseases)

CEREALS

- ALMEIDA, JOÃO M. de. Acêrca da hereditariedade do carácter "dente apical das glumas" no trigo. Agron. Lusitana (Portugal) 2(3): 233-242, pl. 1940. Literature cited. 105.7 Ag8
German summary.
- CLAASSEN, C. E., VOGEL, ORVILLE A., and GAINES, EDWARD F. The inheritance of reaction of Turkey-Florence-1 x Oro-1 to race 8 of *Tilletia levis*. Amer. Soc. Agron. Jour. 34(8): 687-694. Aug. 1942. Literature cited. 4 Am34P
- CLARK, JACOB A., and QUISENBERRY, KARL S. Distribution of the varieties and classes of wheat in the United States in 1939. U. S. Dept. Agr. Cir. 634, 75 pp., maps. Aug. 1942. 1 Ag84C
- GADEA, MANUEL. Los trigos convenientes para la Cuenca del Ebro. Agricultura [Madrid] 11(120): 132-136, illus. Apr. 1942. 15 Ag84
- GARCIA-RADA, GERMAN, and others. An unusually virulent race of wheat stem rust, no. 189. Phytopathology 32(8): 720-726, illus. Aug. 1942. Literature cited. 464.8 P56
José Vallega, William Q. Loegering, and Elvin C. Stakman, joint authors.
- GARRETT, STEPHEN D. The take-all disease of cereals. Imp. Bur. Soil Sci. Tech. Commun. 41, 40 pp., pl. 1942. Bibliography. 56.9 In72
Ophiobolus graminis.
- GARRISON, CARLTON S. Growing winter barley in New Jersey. N. J. Agr. Expt. Sta. Cir. 447, 4 pp. New Brunswick, Aug. 1942. 100 N46S
- HAGEMAN, RICHARD H., and others. The production of grey speck of oats in purified sand cultures. Amer. Soc. Agron. Jour. 34(8): 731-735, illus. Aug. 1942. Literature cited. 4 Am34P
J. S. McHargue, G. D. Sherman, and E. S. Hodge joint authors.
- HWANG, LIANG. The effect of light and temperature on the viability of urediospores of certain cereal rusts. Phytopathology 32(8): 699-711. Aug. 1942. Literature cited. 464.8 P56
- JOHNSTON, C. L., and GREANEY, FRANK J. Studies on the pathogenicity of *Fusarium* species associated with root rot of wheat. Phytopathology 32(8): 670-684. Aug. 1942. Literature cited. 464.8 P56
- KADAM, BABURAO S. Genic analysis of rice. II. Chlorophyll deficiencies. Indian Jour. Genet. & Plant Breed. 1: 13-27, pl. i. Dec. 1941. References. 64.8 In2
- KENWAY, CYRIL B., PETO, H. B., and NEATBY, KENNETH W. Researches on drought resistance in spring wheat. II. The effect of time of day on survival of plants during exposure to artificial drought. Canad. Jour. Res. Sect. C, Bot. Sci. 20(8): 397-402. Aug. 1942. References. 470 C16C
- LUTHERA, JAI CHAND, and CHIMA, INDER SINGH. Some studies on the potentiality of shrivelled wheat grains. Indian Acad. Sci. Proc. Sect. B 14(1): 47-67, pl. v. July 1941. References. 513 In25B
"Germination power and suitability of shrivelled grains for sowing are not affected."
- MANGELSDORF, PAUL C. The origin of maize. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 267-274. 1942. 330.9 Am3008

- MANGELSDORF, PAUL C., and CAMERON, JAMES W. Western Guatemala a secondary center of origin of cultivated maize varieties. Harvard Univ. Bot. Mus. Leaflet 10(8): 217-252, pl. xxv-xxvi, map. Aug. 21, 1942. Literature cited. 451 H262
- MEHTA, KARM C. Control of rust-epidemics of wheat and barley. Indian Farming 3(6): 319-321, 2 pl. June 1942. 23 In283
- OLIVEIRA, BRANQUINHO d', and SOUSA, M. C. F. de. Raças fisiológicas da Puccinia graminis tritici em Portugal. Agron. Lusitana (Portugal) 2(3): 243-252. 1940. Literature cited. 105.7 Ag8
- English summary.
- OLSON, P. J., and others. Cultural studies with barley. II. Differential responses to fertilizer treatment and rate of seeding with respect to yield. Sci. Agr. 22(11): 659-673. July 1942. References. 7 Sci3
- W. O. S. Meredith, H. C. Laidlaw, and A. J. Lejeune, joint authors.
- RAMIAH, K., and RAMASAMY, K. Hybrid vigour in rice (*Oryza sativa* L.) Indian Jour. Genet. & Plant Breeding 1: 4-12. Dec. 1941. References. 64.8 In2
- ROBERTSON, D. W., and others. Winter wheat production in Colorado. Colo. Agr. Expt. Sta. Bul. 470, 23 pp., illus. Fort Collins, Apr. 1942. Bibliographical footnotes. 100 C71S
- J. J. Curtis, Dwight Koonce, J. F. Brandon, and O. H. Coleman, joint authors.
- ROSEN, HARRY R., WHEATMAN, LESLIE M., and McCLELLAND, CHALMER K. Winter injury as related to fall and winter growth and crown-rust infection in oat varieties and their hybrids. Ark. Agr. Expt. Sta. Bul. 418, 17 pp., illus. Fayetteville, June 1942. 100 Ar42
- SHARMAN, B. C. Onset of reproductive phase in grasses and cereals. Nature [London] 150(3798): 208, illus. Aug. 15, 1942. 472 N21
- Defoliation experiments with *Triticum vulgare* var. *ferrugineum* demonstrate stability of leaf number at maturity in spite of drastic treatment.
- SHARMAN, B. C. A six-stamened flower in *Zea mays* L. New Phytol. 41(2): 130-133, illus. July 31, 1942. References. 450 N42
- SHARMAN, B. C. A twin-seedling in *Zea mays* L. Twinning in the Gramineae. New Phytol. 41(2): 125-129, illus., pl. July 31, 1942. References. 450 N42
- SHAVER, JOHN H. Corn fields to the north. Some behind the scenes developments in new northern-adapted hybrid corn. Seed World 52(4): 10-13, illus. Aug. 21, 1942. 61.8 Se52
- STEVENS, KEIL E. Incidence of ear rots in the 1941 corn crop. Plant Dis. Rptr. 26(15): 324-327, maps. Aug. 15, 1942. 1.9 P69P
- STRINGFIELD, G. H., LEWIS, R. D., and PFAFF, H. L. The Ohio cooperative corn performance tests. Ohio Agr. Expt. Sta. Spec. Cir. 64, 26 pp., map. Wooster, Feb. 1942. 100 Oh3S
- THAYER, J. W., JR., and DOWN, ELDON E. Parental corn inbreds: hand pollination methods and cost studies. Amer. Soc. Agron. Jour. 34(8): 720-724. Aug. 1942. Literature cited. 4 Am34P

WEST, H. O., comp. Corn and oats. A compilation of information on comparison, utilization, and production of grain feeds for Mississippi farms. Miss. Agr. Expt. Sta. Bul. 368, 127 pp., illus. State College, June 1942. 100 M69

COTTON AND OTHER FIBER PLANTS

CULTIVATION of jute substitutes. Jute Rev. 15(166): 6. July 1942. 73.38 J982

Congo jute (*Urena lobata*), cabuya (*Fourcroya*).

FLOR, HAROLD H. Inheritance of pathogenicity in *Melampsora lini*.

Phytopathology 32(8): 653-669, illus. Aug. 1942. Literature cited. 464.8 P56

HARDY, ERIC. The biology of cotton fibres. Indian Textile Jour.

51(612): 298, illus. Sept. 1941. 304.8 In2

JACOB, K. T. Nuclear changes in the lint primordial cells of *Gossypium arboreum* var. *typicum* (Ki). Sci. and Cult. (Calcutta) 7(10): 512-513, illus. Apr. 1942. 475 Sci24

KEARNEY, THOMAS H. Cotton breeding in relation to taxonomy. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 251-255. 1942. 330.9 Am3008

KING, CHALMERS J., and PRESLEY, JOHN T. A root rot of cotton caused by *Thielaviopsis basicola*. Phytopathology 32(9): 752-761, illus. Sept. 1942. Literature cited. 464.8 P56

MACHACEK, JOHN E., and BROWN, ARCHIBALD M. Preliminary investigations on mechanical injury in flax seed. Phytopathology 32(8): 733-734, Aug. 1942. Bibliographical footnotes. 464.8 P56

RUIZ CASTRO, AURELIO. Plantas industriales. La gayomba. Agricultura [Madrid] 11(120): 141-145, illus. Apr. 1942. 15 Ag84

DRUG PLANTS

ALMEIDA, JOÃO M. de. Elementos para o estudo e melhoramento do fenacho (*Trigonella foenumgraecum* L.) Agron. Lusitana (Portugal) 2(4): 307-335. 1940. Literature cited. 105.7 Ag8
German summary.

DORAN, WILLIAM L., and DAVIS, A. M. Propagation of sage by cuttings. Amer. Nurseryman 76(5): 12. Sept. 1, 1942. 80 Am371

FENTON, WILLIAM N. Contacts between Iroquois herbalism and colonial medicine. Smithsn. Inst. Ann. Rpt. 1940/41: 503-526, 5 pl. 1942. Biographical footnotes. 500 Sm6R

First part of longer study "Herbs and herbalists among the Iroquois Indians."

FLUCK, HANS. Sammeln und anbauen von arzneipflanzen. Schweiz. Landw. Ztschr. 70(22): 561-582, illus. May 29, 1942. 17 Sch9

GREENWAY, PERCY J. Empire production of drugs. IV. Litmus. East African Agr. Jour. 8(1): 46-47. July 1942. Bibliography. 24 Ea74

MADARANG, SERVANDO A. Rhizoctonia damping-off of cinchona seedlings. Philippine Jour. Forestry 4(2): 105-119, illus., 2 pl. 1941. References. 99.8 P53

"Similar to, if not identical with, *R. solani*."

MALO, ENRIQUE. Plantas medicinales y plantas aromaticas de porvenir industrial. Flora (Inst. Ecuat. Cien. Nat.) 2(3/4): 123-138. May 1942. 450 F662

SIEVERS, ARTHUR F., and HIGBEE, EDWARD C. Medicinal plants of tropical and subtropical regions. U. S. Off. Foreign Agr. Relat. Foreign Agr. Rpt. no. 6, 47 pp., processed. July 1942. References. 1.943 F763

FRUITS AND NUTS

- CARETTE, EDUARDO, and LEAL, ADRIAN R. Supuesta enfermedad de los manzanos en Tunuyán. Mendoza Dir. Indus. y Fomento Agr. Bol. Agr. 10(1/3): 20-22. Jan./Mar. 1942. 9 M52B
- CHILDERS, NORMAN F., and MITCHELL, A. E. Arsenical injury on peaches. Amer. Fruit Grower 62(9): 5, 12, 14, illus. Sept. 1942. 80 G85
- DAINES, ROBERT H. Controlling peach virus diseases. N. J. Agr. Expt. Sta. Plant Dis. Notes 20(3): 11-14. New Brunswick, June 1942. 464.9 N46P
- EASTMAN, J. W. "Little cherry" disease, a newcomer. Country Life in Brit. Columbia 26(6, i.e.7): 9. Aug. 1942. 7 C832
- ELLENWOOD, C. W. Red varieties of early apples. Ohio Agr. Expt. Sta. Bimo. Bul. 27(217): 124. Wooster, July/Aug. 1942. 100 Oh3S
- FUDGE, BONNIE R. Early diagnosis of magnesium deficiency in Florida citrus. Citrus Indus. 23(9): 1, 4-5. Sept. 1942. 80 C49
- Duncan and Marsh grapefruit.
- HANSEN, NIELS E. Northern plant novelties for 1942. S. Dak. State Hort. Soc. Ann. Rpt. (1941/42) 39: 69-75. [1942] 81 So86
- HILDEBRAND, EARL M., BERKELEY, GARVAN H., and CATION, DONALD. Hand-book of virus diseases of stone fruits in North America. 76 pp. East Lansing, Michigan agricultural experiment station, May 1942. 464.32 H54
- HILDEBRAND, EARL M. Indexing cherry yellows on peach. Phytopathology 32(8): 712-719, illus. Aug. 1942. Literature cited. 464.8 P56
- HILDEBRAND, EARL M. Prune dwarf. Phytopathology 32(9): 741-751, illus. Sept. 1942. Literature cited. 464.8 P56
- JENKINS, ERWIN W. Interrelation of pollination, position on cluster and set of pears. Vt. Agr. Expt. Sta. Bul. 493, 27 pp. Literature cited. Burlington, June 1942. 100 V59
- LIN, KUNG H. A physiological study of certain apple rots. Cornell Univ. Abs. Theses 1941: 341-343. 1942. 241.8 C81
- LUTMAN, BENJAMIN F. Some effects of nitrogen on young apple trees. Vt. Agr. Expt. Sta. Bul. 488, 35 pp., illus., iv pl. Burlington, June 1942. Bibliography. 100 V59
- Effect on shoots and leaves with reference to susceptibility to scab.
- McKAY, ROBERT. Apple scab and its control at Glasnevin in 1939, 1940 and 1941. Eire Dept. Agr. Jour. 39(1): 46-79, illus., 6 pl. Mar. 1942. References. 10 Ir2J
- MANNs, THOMAS F. Peach yellows and little peach. Del. Agr. Expt. Sta. Bul. 236, 50 pp., illus., 2 col. pl. Newark, Apr. 1942. Literature cited. 100 D37S
- MESTRES JANE, A. La lucha contra el mildiu. Agricultura [Madrid] 11(120): 139-140, illus. Apr. 1942. 15 Ag84
- MILLE, LUIS. El capuli (Prunus salicifolia H. B. K.) Flora (Inst. Ecuat. Cien. Nat.) 2(3/4): 50-51. May 1942. 450 F662
- REYNOLDS, HOWARD, and VAILE, JOSEPH E. Chemical composition of Arkansas-grown American grapes. Ark. Agr. Expt. Sta. Bul. 420, 53 pp. Fayetteville, June 1942. Literature. 100 Ar42
- REYNOLDS, HOWARD, and VAILE, JOSEPH E. Effects of rootstock upon composition and quality of fruit of Concord, Campbell Early, and Moore Early grapes. Ark. Agr. Expt. Sta. Bul. 421, 39 pp. Fayetteville, June 1942. Literature. 100 Ar42

- RODRIGUES, ACURCIO. O crescimento foliar nalgumas espécies e híbridos do género *Vitis*. Agron. Lusitana (Portugal) 2(3): 253-285, illus., ix pl. 1940. Literature cited. 105.7 Ag8
English summary.
- SCOTT, DONALD H., and CULLINAN, FRANK P. The inheritance of wavy-leaf character in the peach. Jour. Hered. 33(8): 293-295, illus. Aug. 1942. Literature cited. 442.8 Am3
- TUKEY, HAROLD B. Improved rootstocks and some problems which they present. Amer. Fruit Grower 62(9): 6-7, 10-11, 13, illus. Sept. 1942. 80 G85
- VAN DOREN, ARCHIBALD. The influence of controlled atmospheres on the storage life and keeping qualities of certain varieties of apple fruits. Cornell Univ. Abs. Theses 1941: 495-498. 1942. 241.8 C81
- WORMALD, HUGH. Bacterial diseases of stone-fruit trees in Britain. VIII. Bacterial canker of peach. Brit. Mycol. Soc. Trans. 25(3): 246-249, pl. x. June 19, 1942. References. 451 B76
- ZUNDEL, GEORGE L. Some fruit diseases in Pennsylvania. Plant Dis. Rptr. 26(15): 329-330. Aug. 15, 1942. 1.9 P69P

GRASSES AND FORAGE PLANTS

- AAMODT, OLAF S. Turf culture with special reference to the establishment of turf beneath trees. Natl. Shade Tree Conf. Proc. (1941) 17: 50-59. [1942?] 99.9 N218
- ALBRECHT, HERBERT R. Effect of diseases upon survival of white clover, *Trifolium repens* L., in Alabama. Amer. Soc. Agron. Jour. 34(8): 725-730, illus. Aug. 1942. 4 Am34P
- AYYANGAR, G. N. RANGASWAMI, and PONNAIYA, B. W. X. Studies in Para-sorghum Snowden - the group with bearded nodes. Indian Acad. Sci. Proc. Sect. B 14(1): 17-24, pl. i. July 1941. Literature cited. 513 In25B
- The sub-section Para-sorghum consists of four known species: *Sorghum purpureo-sericeum*, *S. dimidiatum*, *S. versicolor*, *S. nitidum*.
- AYYANGAR, G. N. RANGASWAMI, and PONNAIYA, B. W. X. Studies in Sorghum halepense (Linn.) Pers - the Johnson grass. Indian Acad. Sci. Proc. Sect. B 13(3): 157-162, pl. viii. Mar. 1941. Literature cited. 513 In25B
- BLASER, R. E., and STOKES, WILLIAM E. The chemical composition, growth, and certain deficiency symptoms of carpet grass, *Axonopus affinis*, as affected by lime and fertilizer mixtures. Amer. Soc. Agron. Jour. 34(8): 765-768, illus. Aug. 1942. 4 Am34P
- CHILTON, ST. JOHN P. Some pathogenic fungi occurring in the seed of red and subterranean clover. Phytopathology 32(8): 738-739. Aug. 1942. Bibliographical footnotes. 464.8 P56
- Includes *Pleospora herbarum*, *Stemphylium sarcinae-forme* and *Cercospora zebrina*.
- COUTINHO, LUIS A. Raças cariológicas na *V. sativa* L. Agron. Lusitana (Portugal) 2(4): 379-403, illus., pl. 1940. Literature cited. 105.7 Ag8
English summary.
- DOUGHTY, LESLIE R. A note on *Striga* investigations at Amani. East African Agr. Jour. 8(1): 33-38, illus. July 1942. References. 24 Ea74
- S. hermonthica* and *S. asiatica* on sorghum.

- FISCHER, GEORGE W., and others. Host and pathogen indices to the diseases observed on grasses in certain western states during 1941. Plant Dis. Rptr. Sup. 137: 87-144. Aug. 15, 1942. 1.9 P69P
Roderick Sprague, Howard W. Johnson and John R. Hardison, joint authors.
- KREITLOW, KERMIT W. Sclerotium rhizodes on grasses in Pennsylvania. Plant Dis. Rptr. 26(16): 360-361. Sept. 1, 1942. Literature cited. 1.9 P69P
- KRISHNASWAMY, NUGGEHALI, and AYYANGAR, G. N. RANGASWAMI. An auto-triploid in the pearl millet (*Pennisetum typhoides* S. & H.!) Indian Acad. Sci. Proc. Sect. B 13(1): 9-23, illus. Jan. 1941. Literature cited. 513 In25B
- KUMAR, L. S. S. Non-heritable polyembryony in *Andropogon sorghum*. Current Sci. [India] 11(6): 241, illus. June 1942. 475 Sci23
- LETEBVRE, CAMILLE L. *Claviceps yanagawaensis* in imported seed of Japanese lawn grass. Phytopathology 32(9): 809-812, illus. Sept. 1942. 464.8 P56
- LUCES, ZORAIDA. Distribucion altitudinal de las gramineas en Venezuela. Bol. Soc. Venezolana Cien. Nat. 8(51): 285-296. Apr./June 1942. 516 C172
- MCLAUGHLIN, J. HARVEY. Notes on diseases of soybeans and other legumes in Oklahoma. Plant Dis. Rptr. 26(16): 356-359. Sept. 1, 1942. 1.9 P69P
- PIRONE, PASCAL P. Mercury substitutes for turf disease control. N. J. Agr. Expt. Sta. Nursery Dis. Notes 15(1): 1-4. July 1942. 464.9 N46
Thiosan, spargon, lawn sinox.
- ROBERTS, JAMES L., and OLSON, FRANK R. Interrelationships of legumes and grasses grown in association. Amer. Soc. Agron. Jour. 34(8): 695-701. Aug. 1942. Literature cited. 4 Am34P
- ROBERTSON, D. W., WEIHING, R. M., and STEWART, T. G. Pasture and forage crops for irrigated areas in Colorado. Colo. Agr. Expt. Sta. Bul. 469, 47 pp., illus. Fort Collins, Mar. 1942. Bibliographical footnotes. 100 C71S
- ROBINSON, R. R., and PIERRE, W. H. The effect of nitrogen fertilization of permanent pastures on seasonal distribution of yields and on nitrogen recovery in the herbage. Amer. Soc. Agron. Jour. 34(8): 747-764. Aug. 1942. Literature cited. 4 Am34P
- ROJAS, ULISES. Hibridaciones sobre *Euchlaena mexicana* Schrad. Teocinte. Flora (Inst. Ecuat. Cien. Nat.) 2(3/4): 55-65, 8 pl. (on 4) May 1942. 450 F662
- SEN, S. K. A new plant immigrant: *Cenchrus pauciflorus* Benth (Gramineae). Sci. and Cult. (Calcutta) 7(9): 459-460, illus. Mar. 1942. 475 Sci24
- SMITH, RICHARD M. Some effects of black locusts and black walnuts upon the growth of grass and condition of the soil in southeastern Ohio. Ohio State Univ. Abs. Doctors' Diss. 1940/41, no. 35, pp. 133-140. Columbus, 1941. 241.8 Oh3
- SPRAGUE, RODERICK. *Cercospora* eyespot of Kentucky bluegrass. Phytopathology 32(8): 737-738, illus. Aug. 1942. 464.8 P56
C. poagena n. sp.
- SPROSTON, THOMAS, JR. Studies on *Sclerotinia trifoliorum* Erik. Cornell Univ. Abs. Theses 1941: 369-370. 1942. 241.8 C81

- TAYLOR, A. J. Studies in pasture management. The composition of Kikuyu grass under intensive grazing and fertilizing. So. Africa Dept. Agr. and Forestry. Bul. 203 (Soil and Veld Conserv. ser. no. 3) 12 pp., tab. 1941. 24 So84P
- VANTERPOOL, THOMAS C. Pythium root rot of grasses. Sci. Agr. 22(11): 674-687, illus. July 1942. References. 7 Sci2

OIL PLANTS

- BUCHA, H. C. Seed treatment as an aid in the wartime production of peanuts. Du-Pont de Nemours, E. I. & Co., Agr. News Letter 10(5): 114-122. Sept./Oct. 1942. 6 D92
- Summary of tests made in Georgia, North Carolina and by Bayer-Sesman research staff.
- GUENTHER, ERNEST S. Australian eucalyptus oils. Drug and Cosmetic Indus. 51(2): 160-167, 203. Aug. 1942. 396.8 D482
- GUENTHER, ERNEST S. The tea-tree oils. II. Soap 18(9): 25-27. Sept. 1942. 307.8 Sol2
- Melaleuca alternifolia, Leptospermum citratum.
- KUMAR, L. S. S., and ABRAHAM, A. A cytological study of sterility in Sesamum orientale L. Indian Jour. Genet. & Plant Breed. 1: 41-60, illus., pl. v-vii. Dec. 1941. References. 64.8 In2
- PO-YOK fruits from Sierra Leone. [Gt. Brit.] Imp. Inst. Bul. 40(2): 99-103. Apr./June 1942. 26 G79
- Afrolicania elaeosperma, as a substitute for tung.
- RAMANUJAM, S. A haploid plant in toria (Brassica campestris L.) Indian Acad. Sci. Proc. Sect. B 14(1): 25-34, illus., pl. ii-iii. July 1941. References. 513 In25B
- WIGHT, CHRISTIAN. Herbs in perfumery. N. Y. Bot. Gard. Jour. 43(512): 206-209. Aug. 1942. 451 N48J

ORNAMENTALS

- ADAMS, HELEN H. Cattleya dowiana, a history. Amer. Orchid Soc. Bul. 11(4): 107-111, illus. Sept. 1, 1942. 80 Am329
- ALTSTATT, GEORGE E. Susceptibility of some common rose understocks to nematode root knot. Plant Dis. Rptr. 26(16): 371. Sept. 1, 1942. 1.9 P39P
- AMES, OAKES. Orchids in retrospect. Amer. Orchid Soc. Bul. 11(4): 103-106, illus., pl. (front.) Sept. 1, 1942. 80 Am329
- ANDERSON, MRS. VAN W. The newer English hybrid rhododendrons. Gard. Club Amer. Bul. 8(3): 27-30. Sept. 1942. 90.32 G16
- BALLS, EDWARD K. Bulbs here and there. Natl. Hort. Mag. 21(3): 145-157, illus. July 1942. 80 N216
- Wild species.
- BATES, ALFRED. The illusive ivy. VII. Natl. Hort. Mag. 21(3): 132-144, illus. July 1942. 80 N216
- BEHAVIOUR of garden plants. XLIII [i.e. XXXIII], Groundsel. Gard. Chron. 112(2901): 41. Aug. 1, 1942. 80 G162
- BICKERTON, JACK M. A study of two important diseases of carnations; Alternaria blight caused by Alternaria dianthi Stev. and Hall, and Fusarium yellows caused by Fusarium dianthi Prill. and Del.: and their control on Long Island. Cornell Univ. Abs. Theses 1941: 318-321. 1942. 241.8 C81

- CLUTE, WILLARD N. The tree lilac. Amer. Bot. 48(3): 75-76, pl. (front.) July 1942. 450 Am33
Syringa amurensis var. *japonica*.
- INGRAM, COLLINGWOOD. Hardiness. Gard. Chron. 112(2899, 2900): 22, 34-35. July 18, 25, 1942. 80 G162
- LINDSAY, GEORGE. *Eupedilanthus macrocarpus* Benth. the "Candelilla" of Lower California. Desert Plant Life 14(6): 105-106, illus. (incl. front.) July/Aug. 1942. 450 D45
- LITTLE, THOMAS M. Tetraploidy in *Antirrhinum majus* induced by sanguinarine hydrochloride. Science 96(2486): 188-189. Aug. 21, 1942. 470 Sci2
- McCLELLAN, WILBUR D. The control of powdery mildew of roses in the greenhouse. Cornell Univ. Abs. Theses 1941: 344-346. 1942. 241.8 C81
- PECKHAM, ETHEL A. S., and GERSDORFF, CHARLES E. F. Supplement to iris check list 1939. Listing registrations, introductions, corrections, and additional varietal data from autumn 1939 to January 1942. Amer. Iris Soc. Bul. 86, 81 pp. July 1942. 81 Am39
- RIDGWAY, H. W. Alphonse Pericat's azaleas. Natl. Hort. Mag. 21(3): 157-162, illus. July 1942. 80 N216
- SEVERIN, HENRY H. P. Celery calico on perennial delphiniums and certain other host plants. Hilgardia 14(8): 443-455, 6 pl. June 1942. Literature cited. 100 C12H
- SEVERIN, HENRY H. P. Infection of perennial delphiniums by California aster-yellows virus. Hilgardia 14(8): 411-430, 8 pl. June 1942. Literature cited. 100 C12H
- SEVERIN, HENRY H. P., and DICKSON, R. C. Perennial-delphinium ringspot. Hilgardia 14(8): 467-483, illus., 4 pl. June 1942. Literature cited. 100 C12H
- Virus disease.
- STOUT, ARLOW B. Memo re nomenclature of lilies. Natl. Hort. Mag. 21(3): 130-131. July 1942. 80 N216
- Preliminary report.
- THOMSON, JOHN S., and SIMPSON, GEORGE. Further notes on an artificial scree in a New Zealand garden. New Zeal. Inst. Jour. 12(1): 1-12, illus. June 1942. 87 N485J
- TIFFANY, HAROLD S. Blooming dates of some selected hardy perennials. Mass. Agr. Expt. Sta. Bul. 393, 55 pp. Amherst, Apr. 1942. 100 M38H
- WEISS, FREEMAN. Notes on some diseases of ornamentals. Plant Dis. Rptr. 26(15): 331-333. Aug. 15, 1942. 1.9 P69P
- WITHNER, CARL L. Nutrition experiments with orchid seedlings. Amer. Orchid Soc. Bul. 11(4): 112-114, illus. Sept. 1, 1942. 80 Am329
- Experiments mainly with hybrid cattleya.

POTATO

- BALD, JOHN G. The effect of potato virus X on growth and yield. Austral. Jour. Sci. 4(6): 177-178. June 1942. References. 475 Au72
- BALLS, EDWARD K. Central and South American potatoes for the improvement of European and North American stocks. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 143-147. 1942. 330.9 Am3008
- Solanum demissum* possessing strong resistance to *Phytophthora*

infestans, also frost resistance to some degree; *S. acaule*, *S. andegenum*, the "bitter" potato (mainly forms of *S. yusupchukii*) among many others.

BIRD, J. J. Potato growing on the Cumberland Plateau. Tenn. Agr. Expt. Sta. Bul. 181, 66 pp. Knoxville, June 1942. 100 T25S

BONDE, REINER, and others. Resistance of certain potato varieties and seedling progenies to ring rot. *Phytopathology* 32(9): 813-819. Sept. 1942. 464.8 P56

Frederick J. Stevenson, Charles F. Clark, and Robert V. Akeley, joint authors.

HANSING, EARL D. A study of the control of the yellow dwarf disease of potatoes. Cornell Univ. Abs. Theses 1941: 337-340. 1942. 241.8 C81

KOEHNEKE, MARX, and SHAUGHNESSY, JOE. Nebraska seed improvement program for Nebraska potatoes. Amer. Potato Jour. 19(8): 161-166. Aug. 1942. 75.8 P842

LeCLERG, ERWIN L., PERSON, LEE H., and MEADOWS, S. B. Further studies on the temperature relations of sclerotial isolates of *Rhizoctonia solani* from potatoes. *Phytopathology* 32(8): 731-732. Aug. 1942. Bibliographical footnotes. 464.8 P56

LeCLERG, ERWIN L. Potato production in the southern states. U. S. Dept. Agr. Farmers' Bul. 1904, 44 pp., illus. Aug. 1942. 1 Ag84F Seed treatment...pp. 7-10; diseases, pp. 16-31. Supersedes

Farmers' Bul. 1205, Potato Production in the South, by Wm. Stuart.

MORRIS, HARRY E., and AFANASIEV, MITROFAN M. Potato diseases in Montana and their control. Mont. Agr. Expt. Sta. Cir. 166, 41 pp., illus. Bozeman, June 1942. 100 M76

NIELSEN, LOWELL W. Studies with silver compounds and mixtures as fungicidal sprays. Cornell Univ. Abs. Theses 1941: 354-355. 1942. 241.8 C81

In control of potato late blight.

SILBERSCHMIDT, KARL. The production of seed potatoes in the state of São Paulo. Amer. Potato Jour. 19(8): 166-173. Aug. 1942. Literature cited. 75.8 P842

STEVENSON, FREDERICK J., and AKELEY, R. V. Newer potato varieties can be produced with less labor and expense than some of the old. Amer. Potato Jour. 19(8): 153-161. Aug. 1942. 75.8 P842

STONE, WINONA E. Effects of some mild forms of mosaic on potato and a few other plants. Jour. Agr. Res. 65(4): 195-207, illus. Aug. 15, 1942. Literature cited. 1 Ag84J

THATCHER, FREDERICK S. A stem-end rot of potato tubers caused by *Rhizoctonia solani*. *Phytopathology* 32(8): 727-730, illus. Aug. 1942. Bibliographical footnotes. 464.8 P56

RUBBER PLANTS

KLIPPERT, WILLIAM E. The cultivation of Hevea rubber in Tropical America. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 257-262. 1942. 330.9 Am3008

LOOMIS, HAROLD F. Castilla rubber's comeback. U. S. Off. Foreign Agr. Relat. Agr. Amer. 2(9): 171-176, illus. Sept. 1942. 1 F752A

SUGAR PLANTS

- ARCEMEAUX, GEORGE. Summary of results of the time-of-planting tests with sugarcane in Louisiana. Sugar Bul. 20(22): 196-199. Aug. 15, 1942. 65.9 Am32
- BEAUCHAMP, C. E. The leaf composition of different cane varieties and its relationship to their cane and sugar yield. Assoc. de Téc. Azucareros Cuba. Proc. 15: 39-46. Dec. 1941. References. 65.9 As5
- BENNETT, CARLYLE W. Informe sobre experimentos con el mosaico de la caña de azúcar en Tucumán, Argentina, Octubre 12 de 1940 a febrero 9 de 1941. Tucumán Rev. Indus. y Agr. 31(10/12): 427-437. Oct./Dec. 1941. 9 T79
- BORDEN, RALPH J. Juice quality affected by lodging. Hawaiian Planters Rec. 46(2): 39-42, illus. 1942. 25 H311
- CARRERAS G., JOSÉ. Cómo propagar rápidamente la caña de azúcar. Chacra 12(142): 24, 71. Aug. 1942. 9 C34
- FARNSWORTH, RAYMOND B. The effects of soil structure on sugar beet growth. Ohio State Univ. Abs. Doctors' Diss. 1940/41, no. 35, pp. 167-183, illus. Columbus, 1941. Bibliographical footnotes. 241.8 Ch3
- NOLLA, J. A. B. Sugar cane investigations in progress at the Agricultural experiment station of the University of Puerto Rico. Assoc. de Téc. Azucareros Cuba. Proc. 15: 31-37. Dec. 1941. 65.9 As5
- NUCKOLS, S. B. Studies of moisture requirement for sugar beets. Nebr. State Irrig. Assoc. Proc. (1941) 49: 81-96. [1942] Literature cited. 55.9 N27P
- PRICE, CHARLES, and HUBERTY, M. R. Irrigation of sugar beets grown for seed. U. S. Dept. Agr. Cir. 658, 7 pp. Aug. 1942. 1 Ag84C
- RUSSELL, E. W., KEEN, B. A., and MANN, H. H. Studies in soil cultivation. XI. The effect of inter-tillage on the sugar-beet crop. Jour. Agr. Sci. [England] 32(3): 330-337. July 1942. References. 10 J822
- SALINAS, J. G. On the industrial yields of sugar cane in Cuba. Assoc. de Téc. Azucareros Cuba. Proc. 15: 11-30, illus. Dec. 1941. 65.9 As5

TOBACCO

- GOODSPEED, THOMAS H. The South American genetic groups of the genus Nicotiana and their distribution. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 231-238. 1942. References. 330.9 Am3008
- MATTHEWS, E. M. Tobacco men hit jackpot with new variety. Early-maturing "Yellow special." South. Seedsman 5(9): 8, 33, illus. Sept. 1942. 61.8 So8
- A cross between "Harrison's special" and probably "Lizard tail."
- RAGHAVAN, TIRUVILANDUR S., and SRINIVASAN, A. R. Cytogenetical studies in Nicotiana. II. Morphological features of Nicotiana glutinosa and the hybrid between Nicotiana glutinosa and N. tabacum. Indian Acad. Sci. Proc. Sect. B 14(1): 35-46, illus., pl. iv. July 1941. References. 513 In25B

TREES AND WOODY PLANTS

- AGUILAR, LUIS. Relative durability of untreated Philippine woods. Philippine Jour. Forestry 4(3): 247-256, 2 pl. 1941. References. 99.8 P53
- A progress report. List of 182 woods with vernacular and scientific names, pp. 252-255.
- AHRENDT, LESLIE W. A. Barberries for the collector [III]. Gard. Illus. 63(3281): 773, illus. Aug. 1942. 80 G169
- ALABAMA produced cork is new possibility. Ala. Conserv. 14(12, i.e.3): 9, 11, illus. Sept. 1942. 279.8 A11
- Cork oak planted near Greensboro in 1858 yields 200 pounds when stripped.
- BEARD, J. S. Summary of silvicultural experience with cedar, *Cedrela mexicana* Roem. in Trinidad. Caribbean Forester 3(3): 91-102. Apr. 1942. 1.9622 T2023
- BELL, MARGARET E. Outstanding plant material which is not widely used. Gard. Club Amer. Bul. 8(3): 31-37. Sept. 1942. 90.32 G16
- Trees and shrubs.
- BURNS, GEORGE P. Eccentric growth in the main stem of young white ash trees. Vt. Agr. Expt. Sta. Bul. 492, 19 pp., illus., 2 pl. Burlington, June 1942. Bibliography. 100 V59
- CHRISTENSEN, CLYDE M., and KAUFERT, FRANK H. A blue-staining fungus inhabiting the heart-wood of certain species of conifers. *Phytopathology* 32(8): 735-737, illus. Aug. 1942. Bibliographical footnotes. 464.8 P56
- Thuja occidentalis* in particular, fungus undetermined.
- CLEMENTS, J. B. Nyasaland indigenous timbers. Nyasaland Agr. Quart. Jour. 2(3): 6-19. July 1942. References. 24 N983
- Alphabetical list with scientific and vernacular names and character of wood.
- DAVIS, WILLIAM C., WRIGHT, ERNEST, and HARTLEY, CARL. Diseases of forest tree nursery stock. U. S. Civilian Conserv. Corps. Forestry Pub. no. 9, 79 pp., illus. 1942. 173.2 C76F
- FLORY, WALTER S., JR., and BRISON, FRED R. Propagation of a rapid growing semi-evergreen hybrid oak. Tex. Agr. Expt. Sta. Bul. 612, 32 pp., illus. College Station, May 1942. References. 100 T31S
- Quercus virginiana* x *Q. lyrata*.
- HOLDRIDGE, L. R. Trees of Puerto Rico. vol. I. U. S. Forest Serv. Trop. Forest Expt. Sta. Occas. Paper, 104 pp., illus. Rio Piedras, P. R., Mar. 1942. 1.9622 T20c1
- Both native and introduced.
- HORSTFALL, JAMES G., and ZENTMYER, GEORGE A. Chemotherapy for vascular diseases of trees. Natl. Shade Tree Conf. Proc. (1941) 17: 7-18. [1942?] 99.9 N218
- JOHNSTON, JOHN R. Diseases and insect pests of pine trees in Guatemala. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 245-250. 1942. 330.9 Am3008
- Decides death of pines (*Pinus montezumae* in particular) due to insects; the rusts described are not abundant on the dying trees.
- JOY, EDWARD L. Recent developments in white-pine blister rust control in the Northwest. Northwest Sci. 16(3): 55-58. Aug. 1942. 470 N81

- MCKENZIE, MALCOLM A. Experimental autoecism and other biological studies of a gall-forming *Peridermium* on northern hard pines. *Phytopathology* 32(9): 785-798, illus. Sept. 1942. Literature cited. 464.8 P56
- MALLONGA, ANGEL C. Root rot of some Philippine forest trees caused by *Ganoderma lucidum* (Leys.) Karsten. *Philippine Jour. Forestry* 4(1): 1-13, 4 pl. 1941. References. 99.8 P53
- MARRERO, JOSE. A seed storage study of maga. *Caribbean Forester* 3(4): 173-184. July 1942. Literature cited. 1.9622 T2C23
- Montezuma speciosissima.
- METCALF, WOODBRIDGE. Some California trees of outstanding interest. *West. Shade Tree Conf.* (1940) 7: 31-49. [1941] 99.9 W521
- MILER, PIERRE A. Recent advances in our knowledge concerning the oak mildew disease. *West. Shade Tree Conf. Proc.* (1940) 7: 64-70. [1941] 99.9 W521
- PIRONE, PASCAL P. Your shade trees: cavity treatments. *Amer. Forests* 48(9): 414-415, illus. Sept. 1942. 99.8 F762
- ROLDAN, EMILIANO F. Nursery wilt of mahogany seedlings. *Philippine Jour. Forestry* 4(3): 267-277, illus., 2 pl. 1941. References. 99.8 P53
- Sclerotium delphinii* on *Swietenia macrophylla*.
- ROWNTREE, LESTER. Californian lilacs [*Ceanothus*] *Gard. Illus.* 63(3280): 753, illus. July 1942. 80 G169
- SKINNER, HENRY T. The raisin tree. *Pa. Univ. Morris Arboretum Bul.* 4(2): 14, 20, illus. (incl. cover) Aug. 1942. 451 P383
- Hovenia dulcis*.
- STRONG, FORREST C. Observations and recommendations for prevention and treatment of chemical injuries to ornamental plants. *Natl. Shade Tree Conf. Proc.* (1941) 17: 74-89, illus. [1942?] Literature cited. 99.9 N218
- URQUIJO LANDALUZE, PEDRO. Enfermedad de la tinta del castaño. *La Corona Estac. Fitopat. Agr. Mem.* 14: 31-38, illus. 1941. Bibliography. 464.9 C81
- WAGNER, WILLIS W. The physical effects of drought on shade trees. *West. Shade Tree Conf. Proc.* (1940) 7: 21-30. [1941] 99.9 W521

TROPICAL PLANTS

- ALVARADO, JUAN A. El agotamiento del humus en el terreno y su influencia sobre ciertas clases de podredumbres de la raíz, que aparentemente son de origen Patogeno y que realmente no son más que casos de inanición y muerte por hambre... IV. *Café de El Salvador* 12(138, 139): 346-362, 396-409, illus. June, July 1942. 68.28 C112
- BONDAR, GREGORIO. As cêras no Brasil e o licuri *Cocos coronata* Mart. na Bahia. *Bahia Inst. Cent. Fomento Econ. Bol.* 11, 86 pp., 18 pl. 1942. Bibliography. 9.2 B143
- BURKART, ARTURO. Los frutos de las especies silvestres de *Arachis*. *Amer. Sci. Cong.* 8th, Washington, 1940. *Proc.* 3: 175-178, illus. 1942. 330.9 Am3008
- A. villosa*.
- DAS GUPTA, SACHINDRA N., VERMA, G. S., and SINHA, S. Studies in the diseases of *Mangifera indica* Linn. III. Investigation into the effect of sulphur dioxide gas on the mango fruit. *Indian Acad. Sci. Proc. Sect. B* 13(1): 71-83, pl. ii-iii. Jan. 1941. References. 513 In25B

- FORBES, A. P. S. Some observations on the "yellows" sulphur deficiency disease of tea. Nyasaland Agr. Quart. Jour. 2(3): 20-26. July 1942. 24 N983
- KUMAR, L. S. S., and JOSHI, W. V. False polyembryony in viviparous *Rhizophora mucronata* Lam. Current Sci. [India] 11(6): 242, illus. June 1942. 475 Sci23
- LINDSAY, WALTER R. Mangosteen cultivation. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 263-265. 1942. 330.9 Am3008
- MAYORAL REINAT, A., and DECASTRO, VALENTÍN. Orientaciones sobre el cultivo de frutas en Puerto Rico. Rev. de Agr., Indus. y Com. de Puerto Rico 34(2): 194-199. Apr./June 1942. 8 R325
- MENDOZA, DEMETRIO R. Natural distribution of durians in the Philippines. Philippine Jour. Forestry 4(1): 27-33, 2 pl. (incl. map) 1941. References. 99.8 P53
- NATIVIDADE, JOAQUIM V. Os mamilos radicíferos da oliveira (*Olea europaea* L.). Particularidades do enraizamento das plantas propagadas vegetativamente (Root-bearing mammilliae of the olive tree. Rooting habits and root character of plants propagated by vegetative methods). Agron. Lusitana (Portugal) 2(2): 169-179, vi pl. 1940. Literature cited. 105.7 Ag8
English summary.
- ORELLANA, RODRIGO. La sigatoka; una nueva enfermedad del banano. Flora (Inst. Ecuat. Cien. Nat.) 2(3/4): 117-119. May 1942. 450 F662
- POSNETTE, ADRIAN F. Note on twinning cacao seedlings. Trop. Agr. [Trinidad] 19(8): 146. Aug. 1942. 26 T754

VEGETABLES

- ALTSEATT, GEORGE E. Garlic mosaic in Texas. Plant Dis. Rptr. 26(16): 364-365. Sept. 1, 1942. 1.9 P69P
- ANANTAKRISHNAN, C. P., and VENKATARAMAN, P. R. The chemistry of garlic. (*Allium sativum* L.) I-III. Indian Acad. Sci. Proc. Sect. B 12(6): 268-276, 277-282. Dec. 1940; 13(2): 129-133. Feb. 1941. References. 513 In25B
I. The nitrogen complex. II. The phosphorus distribution. III. The reserve polysaccharides.
- ANDERSEN, ELIAS M. The effects of certain environmental and plant factors on tipburn of iceberg lettuce. Cornell Univ. Abs. Theses 1941: 499-500. 1942. 241.8 C81
- ANDRUS, CHARLES F., REYNARD, GEORGE B., and WADE, BRYAN L. Relative resistance of tomato varieties, selections, and crosses to defoliation by *Alternaria* and *Stemphylium*. U. S. Dept. Agr. Cir. 652, 23 pp., illus. Aug. 1942. Literature cited. 1 Ag84C
- DAVIS, GLEN N., and WHITAKER, THOMAS W. Growing and handling cantaloupes and other melons. Calif. Agr. Expt. Sta. Cir. 352, 40 pp., illus. Berkeley, July 1942. 100 C12S
Supersedes Cir. 308. Diseases (pp. 35-38), by J. T. Middleton.
- DORAN, WILLIAM L., GUBA, EMIL F., and GILGUT, CONSTANTINE J. The control of damping-off of vegetables by formaldehyde and other chemicals. Mass. Agr. Expt. Sta. Bul. 394, 20 pp. Amherst, June 1942. Literature cited. 100 M38H
- GUBA, EMIL F. Bay State, a red forcing tomato bred for resistance to leaf mold. Mass. Agr. Expt. Sta. Bul. 393, 8 pp., 8 pl. on 4. Amherst, June 1942. Literature cited. 100 M38H

KRAUS, JAMES E. Effects of partial defoliation at transplanting time on subsequent growth and yield of lettuce, cauliflower, celery, peppers, and onions. U. S. Dept. Agr. Tech. Bul. 829, 35 pp., illus. Aug. 1942. Literature cited. 1 Ag84Te

LESLEY, JAMES W., and LESLEY, MARGARET M. A hereditary variegation in tomatoes. Genetics 27(5): 550-560, illus. Sept. 1942. Literature cited. 442.8 G28

LORENZ, OSCAR A. A study of internal breakdown of garden beets with special reference to boron-cation relationships. Cornell Univ. Abs. Theses 1941: 501-504. 1942. 241.8 C81

MIDDLETON, JOHN T., and WHITAKER, THOMAS W. A lethal virus disease of cantaloup occurring in the Imperial Valley. Plant Dis. Rptr. 26(15): 331. Aug. 15, 1942. 1.9 P69P

MORRIS, LEONARD L. Physiological responses of certain vegetables to treatment with wax emulsions. Cornell Univ. Abs. Theses 1941: 505-508. 1942. 241.8 C81

NUSBAUM, CHARLES J. Observations on cucurbit downy mildew in South Carolina. Plant Dis. Rptr. 26(16): 365-366. Sept. 1, 1942. 1.9 P69P

OLIVEIRA, MARIA de L. d' Dois virus no pimenteiro. Agron. Lusitana (Portugal) 2(3): 209-224, pl. 1940. Literature cited. 105.7 Ag8
Tobacco and cucumber mosaic. English summary.

PAL, BENJAMIN P., RAMANUJAM, S., and JOSHI, A. B. Colchicine-induced polyploidy in crop plants. II. Chilli (*Capsicum annuum* L.) Indian Jour. Genet. & Plant Breed. 1: 28-40, illus., pl. ii-iv. Dec. 1941. References. 64.8 In2

SAMSON, RAYBURN W. Single-virus streak of greenhouse tomatoes. Plant Dis. Rptr. 26(16): 361-364. Sept. 1, 1942. Literature cited. 1.9 P69P

SCHROEDER, WILBUR T., and WALKER, JOHN C. Influence of controlled environment and nutrition on the resistance of garden pea to *Fusarium* wilt. Jour. Agr. Res. 65(5): 221-248, illus., 4 pl. Sept. 1, 1942. Literature cited. 1 Ag84J

SHIERISS, OVED, MYERS, CLYDE H., and CHUPP, CHARLES. Resistance to mosaic virus in the cucumber. Phytopathology 32(9): 773-784, illus. Sept. 1942. Literature cited. 464.8 P56

SINGLETARY, B. H. The Singletary pea. A versatile legume. South. Seedsman 5(9): 9, 29, 36, illus. Sept. 1942. 61.8 So8
Believed to be cross between a sweet pea and a wild pea; called the first real solution to the winter legume problem of the South.

SOILS AND FERTILIZERS

COILE, T. S. Some physical properties of the B horizons of Piedmont soils. Soil Sci. 54(2): 101-103, illus. Aug. 1942. 56.8 So3

COLDWELL, ALBERT E., LOEWEN, PAUL R., and WHITFIELD, CHARLES J. The relation of various types of vegetative cover to soil drift. Amer. Soc. Agron. Jour. 34(8): 702-710. Aug. 1942. 4 Am34P

CONNELL, R. P. Does linen flax exhaust the soil? New Zeal. Jour. Agr. 65(1): 5-9, illus. July 15, 1942. 23 N48J

- FINN, R. F., and TRYON, H. H. The comparative influence of leaf mould and inorganic fertilizers on the growth of red oak. Black Rock Forest Papers 1(17): 107-109. 1942. 99.9 B562B
- FINN, R. F. Mycorrhizal inoculation of soil of low fertility. Black Rock Forest Papers 1(19): 116-117, illus. 1942. 99.9 B562B
- FINN, R. F. Notes on the resampling of certain fertilized plots. Black Rock Forest Papers 1(16): 103-105. 1942. 99.9 B562B
- Plots used in studies on the nutrient requirements of trees.
- GETHIN JONES, G. H. The effect of a leguminous cover crop in building up soil fertility. East African Agr. Jour. 8(1): 48-52. July 1942. 24 Ea74
- HAHN, BARTON E., OLSON, FRANK R., and ROBERTS, JAMES L. Influence of potassium chloride on nitrification in Bedford silt loam. Soil Sci. 54(2): 113-121. Aug. 1942. References. 56.8 So3
- HARDY, FREDERICK. The soils of South America. Chron. Bot. 7(5): 211-217, illus. (maps) Sept. 1942. References. 450 C46
- HORNER, C, KENNETH, and others. Nitrogen fixation by Azotobacter as influenced by molybdenum and vanadium. Jour. Agr. Res. 65(4): 173-193, illus. Aug. 15, 1942. Literature cited. 1 Ag84J
- Dean Burk, Franklin E. Allison and Mildred S. Sherman, joint authors.
- KUYKENDALL, ROY. When to turn legumes? ...It's a problem; many factors determine time for turning under winter cover crops to get maximum fertilizer benefits. South. Seedsman 5(9): 10, 31, illus. Sept. 1942. 61.8 So8
- LIND, C. J., and WILSON, P. W. Nitrogen fixation by Azotobacter in association with other bacteria. Soil Sci. 54(2): 105-111. Aug. 1942. References. 56.8 So3
- McGEORGE, W. T. The productive capacity of semiarid soils and the present emergency. Ariz. Agr. Expt. Sta. Bul. 182, pp. 459-496. Tucson, Mar. 1942. 100 Ar4
- Reclamation of alkali soils - structural aspects; composting farm manure and organic farm waste; soil analysis and fertilizer problems.
- MARSHALL, C. E., and others. Studies of clay particles with the electron microscope: II. The fractionation of beidellite, nontronite, magnesium bentonite, and attapulgite. Soil Sci. 54(2): 149-158, illus. Aug. 1942. References. 56.8 So3
- R. P. Humbert, B. T. Shaw, and O. G. Caldwell, joint authors.
- MATHEWS, E. D. Effect of drought and rainfall on movement of soil nitrogen in Cecil soils. Ga. Expt. Sta. Cir. 137, 7 pp. Experiment, July 1942. 100 G29S
- MORGAN, M. F., JACOBSON, H. G. M., and STREET, O. E. The neutralization of acid-forming nitrogenous fertilizers in relation to nitrogen availability and soil bases. (A report of Windsor lysimeter series D) Soil Sci. 54(2): 127-148. Aug. 1942. 56.8 So3
- MOSER, FRANK. Influence of leguminous plant additions on the organic matter content and available nutrient supply of southern soils. Amer. Soc. Agron. Jour. 34(8): 711-719, illus. Aug. 1942. Literature cited. 4 Am34P
- MYERS, H. E., and ANDERSON, KLING L. Bromegrass toxicity vs. nitrogen starvation. Amer. Soc. Agron. Jour. 34(8): 770-773, illus. Aug. 1942. 4 Am34P
- SIDERI, D. I., and LIAMINA, A. N. The composition of soil colloidal clay. Soil Sci. 54(2): 83-100. Aug. 1942. References. 56.8 So3

- SIMONSON, ROY W. Soil survey of Iowa: Decatur county soils. Iowa Agr. Expt. Sta. Soil Survey Rpt. 80, 56 pp., map. Ames, May 1942. 100 Io92
- SIMONSON, ROY W., and BENTON, T. H. Soil survey of Iowa: Ida county soils. Iowa Agr. Expt. Sta. Soil Survey Rpt. 82, 51 pp., map. Ames, Apr. 1942. 100 Io92
- SIMONSON, ROY W., and BENTON, T. H. Soil survey of Iowa: Marion county soils. Iowa Agr. Expt. Sta. Soil Survey Rpt. 81, 84 pp., map. Ames, Nov. 1941. 100 Io92
- SORIANO, S. The presence of *Azotobacter agilis* in North and South America. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 3: 279-283. 1942. Literature cited. 330.9 Am3008
- STEWART, A. B., and WILLIAMS, E. G. Time of application of fertilizers with special reference to superphosphate. Scot. Jour. Agr. 24(1): 52-56. July 1942. 10 Sco82So
- STORIE, R. EARL, and others. Soil survey of the Pixley area, California. U. S. Bur. Plant Indus. Soil Survey Ser. 1935, no. 23, 113 pp., illus., map. Washington, D. C., Apr. 1942. Literature cited. 1 So32F
- In cooperation with California Agricultural Experiment Station. Bruce C. Owen, M. H. Layton, A. C. Anderson, W. J. Leighty, and C. C. Nikiforoff, joint authors.
- TANADA, T., and DEAN, LYMAN A. Boron in some Hawaiian soils and crops. Hawaiian Planters Rec. 46(2): 65-74. 1942. Literature cited. 25 H311
- WILDE, S. A., and WITTENKAMP, R. Duff briquette fertilizers: their preparation, use, and effect upon the growth of trees and other plants. Amer. Soc. Agron. Jour. 34(8): 736-746, illus. Aug. 1942. Literature cited. 4 Am34P

AUTHOR INDEX

	<u>Page</u>		<u>Page</u>
Aamodt, O. S.....	D-90	Blaser, R. E.....	D-90
Abraham, A.....	D-92	Bondar, Gregorio.....	D-97
Acosta Solis, Misael.....	D-79	Bonde, Reiner.....	D-94
Adams, H. H.....	D-92	Bonner, James.....	D-82
Adamson, R. S.....	D-74	Borden, R. J.....	D-95
Afanasiev, M. M.....	D-94	Boyd, O. C.....	D-84
Aguilar, Luis.....	D-96	Brain, E. D.....	D-82
Ahrendt, L. W. A.....	D-96	Brandon, J. F.....	D-87
Akeley, R. V.....	D-94	Braun, A. C.....	D-85
Albrecht, H. R.....	D-90	Brisson, F. R.....	D-96
Allen, H. O.....	D-81	Brown, A. M.....	D-88
Allison, D. E.....	D-100	Brown, J. R.....	D-74
Almeida, J. F. R. d'.....	D-79	Bucha, H. C.....	D-92
Almeida, J. M. de.....	D-86, D-88	Burk, Dean.....	D-100
Altstatt, G. E.....	D-92, D-98	Burkart, Arturo.....	D-97
Alvarado, J. A.....	D-97	Burns, G. P.....	D-96
Ames, Oakes.....	D-92	Burton, W. H.....	D-80
Anantakrishnan, C. P.....	D-98	Butler, L. I.....	D-81
Andersen, E. M.....	D-98		
Anderson, A. C.....	D-101	Caldwell, O. G.....	D-100
Anderson, K. L.....	D-100	Camara, Antonio.....	D-82
Anderson, Mrs. Van W.....	D-92	Camara, E. de S. da.....	D-76
Andrus, C. F.....	D-98	Camargo, F. C.....	D-74
Apte, V. V.....	D-78	Cameron, J. W.....	D-87
Arceneaux, George.....	D-95	Carabia, J. P.....	D-74
Armstrong, G. M.....	D-84	Carette, Eduardo.....	D-89
Arnst, Albert.....	D-79	Carll, W. C.....	D-82
Asmous, V. C.....	D-73	Carreras G., José.....	D-95
Ayyangar, G. N. R.....	D-90, D-91	Cation, Donald.....	D-89
		Chadwick, L. C.....	D-83
Bald, J. G.....	D-93	Chandler, Clyde.....	D-81
Balls, E. K.....	D-92, D-93	Charles, V. K.....	D-76
Barbour, W. E.....	D-79	Chase, F. M.....	D-78
Baten, W. D.....	D-82	Chatterjee, R.....	D-81
Bates, Alfred.....	D-92	Chaudhuri, Haraprasad.....	D-76
Beard, J. S.....	D-96	Childers, N. F.....	D-89
Beauchamp, C. E.....	D-95	Chilton, St. J. P.....	D-90
Bell, M. E.....	D-96	Chima, I. S.....	D-86
Benne, E. J.....	D-80, D-81	Christensen, C. M.....	D-96
Bennett, C. C.....	D-84	Chupp, Charles.....	D-99
Bennett, C. W.....	D-95	Claassen, C. E.....	D-86
Benton, T. H.....	D-101	Clark, C. F.....	D-94
Berkeley, G. H.....	D-89	Clark, J. A.....	D-86
Bharucha, F. R.....	D-82	Clarkson, R. E.....	D-80
Bickerton, J. M.....	D-92	Clements, J. B.....	D-96
Binkley, A. M.....	D-82	Clute, W. N.....	D-79, D-93
Bird, J. J.....	D-94	Coile, T. S.....	D-99
Bitancourt, A. A.....	D-76	Coldwell, A. E.....	D-99
Blasdale, W. C.....	D-76	Coleman, O. H.....	D-87

	<u>Page</u>		<u>Page</u>
Connell, R. P.....	D-99	Foister, C. E.....	D-84
Countinho, L. A.....	D-90	Folkers, K.....	D-81
Cowling, Hale.....	D-81	Forbes, A. P. S.....	D-98
Croizat, Leon.....	D-74	Fox, D. L.....	D-81
Cullinan, F. P.....	D-90	Frampton, V. L.....	D-84
Curtis, J. J.....	D-87	Francis, Thomas, jr.....	D-82
Cutter, V. M., jr.....	D-76	Friedman, B. A.....	D-82
		Fritsch, F. E.....	D-78
Dachnowski-Stokes, A. P.....	D-80	Fudge, B. R.....	D-89
Daines, R. H.....	D-89		
Darlington, C. D.....	D-81	Gadea, Manuel.....	D-86
Darrah, W. C.....	D-73	Gaines, E. F.....	D-86
Das Gupta, S. N.....	D-97	Garcia-Rada, German.....	D-86
Davis, A. M.....	D-88	Garrett, S. D.....	D-86
Davis, G. N.....	D-98	Garrison, C. S.....	D-86
Davis, W. C.....	D-96	Garside, Sydney.....	D-73
Dean, L. A.....	D-101	Gersdorff, C. E. F.....	D-93
Decastro, V.....	D-98	Gethin Jones, G. H.....	D-100
Dennis, R. W. G.....	D-84	Giese, A. C.....	D-76, D-82
Deodikar, G. B.....	D-75	Gilgut, C. J.....	D-98
Desai, J. L.....	D-79	Gilly, C. L.....	D-74
Dickson, R. C.....	D-93	Gomes da Luz, C.....	D-76
DiSomma, A. A.....	D-84	Gonçalves da Cunha, A.....	D-78
Dodge, B. O.....	D-76	Goodspeed, T. H.....	D-76, D-95
Doran, W. L.....	D-88, D-98	Gray, E. G.....	D-77
Doughty, L. R.....	D-90	Greaney, F. G.....	D-86
Down, E. E.....	D-87	Greenfield, S. S.....	D-84
Dowson, W. J.....	D-78	Greenway, P. J.....	D-88
Du Buy, H. G.....	D-84	Gregor, J. W.....	D-79
Ducke, Adolphe.....	D-74	Guba, E. F.....	D-98
Dugand, Armando.....	D-79	Guenther, Ernest.....	D-92
Dyall, S. C.....	D-74		
Dykstra, T. P.....	D-84	Haensler, C. M.....	D-84
		Hageman, R. H.....	D-81, D-86
Eakin, E. A.....	D-82	Hahn, B. E.....	D-100
Eakin, R. E.....	D-82	Hansen, N. E.....	D-89
Eastman, J. W.....	D-89	Hansing, E. D.....	D-84, D-94
Eaton, F. M.....	D-82	Hardison, J. R.....	D-91
Ellenwood, C. W.....	D-89	Hardy, Eric.....	D-88
Ellis, W. J.....	D-81	Hardy, Frederick.....	D-100
Elmer, L. A.....	D-80	Hartley, Carl.....	D-96
		Harvey, H. W.....	D-78
Farnsworth, R. B.....	D-95	Hawkins, B. S.....	D-84
Fenton, William N.....	D-88	Higbee, E. C.....	D-88
Fernald, M. L.....	D-79	Hilborn, M. T.....	D-84
Finn, R. F.....	D-100	Hildebrand, E. M.....	D-89
Fischer, G. W.....	D-91	Hiscox, D. J.....	D-81
Flor, H. H.....	D-88	Hodge, E. S.....	D-86
Flory, W. S., jr.....	D-96	Hodge, W. H.....	D-75, D-79
Flück, Hans.....	D-88	Hodgkiss, W. S.....	D-81
Fogg, J. M., jr.....	D-79	Hoerner, G. R.....	D-85

	<u>Page</u>		<u>Page</u>
Holdridge, L. R.....	D-96	Lagrimas, Martin.....	D-80
Holmes, F. O.....	D-85	Laidlaw, H. C.....	D-87
Horner, C. K.....	D-100	Layton, M. H.....	D-101
Horning, E. S.....	D-85	Leal, A. R.....	D-89
Horsfall, J. G.....	D-85, D-96	LeClerc, E. L.....	D-94
Howard, R. A.....	D-75	Ledingham, R. J.....	D-77
Huberty, M. R.....	D-95	Lefebvre, C. L.....	D-91
Humbert, R. P.....	D-100	Leighty, W. J.....	D-101
Humm, H. J.....	D-78	Lejeune, A. J.....	D-87
Hwang, Liang.....	D-86	Lennox, F. G.....	D-81
Ingram, Collingwood.....	D-93	Lesley, J. W.....	D-99
Inman, O. L.....	D-82	Lesley, M. M.....	D-99
Isaac, W. E.....	D-78	Lewis, R. D.....	D-87
Iturbe, Juan.....	D-79	Liamina, A. N.....	D-100
Jacob, K. T.....	D-88	Lin, K. H.....	D-89
Jacobson, H. G. M.....	D-100	Lind, C. J.....	D-100
Jane, F. W.....	D-78	Lindsay, George.....	D-75, D-93
Janssen, R. E.....	D-80	Lindsay, W. R.....	D-98
Jenkins, A. E.....	D-76	Linn, M. B.....	D-84
Jenkins, E. W.....	D-89	Little, T. M.....	D-93
Jepson, W. L.....	D-79	Livingston, J. E.....	D-85
Johnson, Howard W.....	D-91	Loegering, W. Q.....	D-86
Johnston, C. L.....	D-86	Loewen, P. R.....	D-99
Johnston, J. R.....	D-96	Loomis, H. F.....	D-94
Joshi, A. B.....	D-99	Lorenz, O. A.....	D-99
Joshi, W. V.....	D-98	Lucas, Zoraida.....	D-91
Joy, E. L.....	D-96	Luthra, J. C.....	D-86
Kadam, B. S.....	D-86	Lutman, B. F.....	D-89
Kaufert, F. H.....	D-96	McClellan, W. D.....	D-93
Kausik, S. B.....	D-82	McClelland, C. K.....	D-87
Kearney, T. H.....	D-88	McGeorge, W. T.....	D-100
Keen, B. A.....	D-95	Machacek, J. E.....	D-88
Kenway, C. B.....	D-86	McHargue, J. S.....	D-81, D-86
Keyworth, W. G.....	D-77	McKay, Robert.....	D-89
Khan, Reayat.....	D-81, D-83	McKenzie, M. A.....	D-97
King, C. J.....	D-88	McLaughlin, J. H.....	D-91
Klippert, W. E.....	D-94	Macrae, Ruth.....	D-77
Koehnke, Marx.....	D-94	Madarang, S. A.....	D-88
Kohl, E. F.....	D-80	Magness, J. R.....	D-83
Koniuszy, F.....	D-81	Mallonga, A. C.....	D-97
Koonce, Dwight.....	D-87	Malo, Enrique.....	D-88
Kraus, J. E.....	D-99	Mandels, G. R.....	D-78
Kreitlow, K. W.....	D-91	Mangelsdorf, P. C.....	D-86, D-87
Krishnaswamy, Nugehalli.....	D-91	Mann, H. H.....	D-95
Kumar, L. S. S.....	D-75, D-85, D-91, D-92, D-98	Manns, T. F.....	D-89
Kuykendall, Roy.....	D-100	Marion, Léo.....	D-81
		Marrero, José.....	D-97
		Marshall, C. E.....	D-100
		Marshall, Lawrence.....	D-83

	<u>Page</u>
Mathews, E. D.....	D-100
Matthews, E. M.....	D-95
Mayoral Reinat, A.....	D-98
Meadows, S. B.....	D-94
Mehta, K. C.....	D-87
Melville, Ronald.....	D-81
Mendoza, D. R.....	D-98
Meredith, W. O. S.....	D-87
Merrill, E. D.....	D-73
Mestres Jané, A.....	D-89
Metcalf, F. P.....	D-74, D-75
Metcalf, Woodbridge.....	D-97
Middleton, J. T.....	D-99
Miler, P. A.....	D-97
Mille, Luis.....	D-89
Minshall, W. H.....	D-85
Mitchell, A. E.....	D-89
Moldenke, H. N.....	D-73, D-79
Moore, W. C.....	D-85
Morgan, M. F.....	D-100
Morris, H. E.....	D-94
Morris, L. L.....	D-99
Moser, Frank.....	D-100
Mountain, E. D.....	D-80
Mukherjee, Anil.....	D-80
Muller, C. H.....	D-75
Murrill, W. A.....	D-75
Myers, C. H.....	D-99
Myers, H. E.....	D-100
Natividade, J. V.....	D-98
Navalkar, B. S.....	D-82
Neatby, K. W.....	D-86
Nielsen, L. W.....	D-94
Nikiforoff, C. C.....	D-101
Nolla, J. A. B.....	D-95
Norman, J. R.....	D-73
Nuckols, S. B.....	D-95
Nusbaum, C. J.....	D-99
Oliveira, A. L. B. d'.....	D-76
Oliveira, B. d'.....	D-87
Oliveira, M. de L. d'.....	D-99
Olson, F. R.....	D-91, D-100
Olson, P. J.....	D-87
Orellana, Rodrigo.....	D-98
Overholts, L. O.....	D-77
Owen, B. C.....	D-101
Pagán, F. M.....	D-78
Pal, B. P.....	D-83, D-99
Peckham, E. A. S.....	D-93

	<u>Page</u>
Person, L. H.....	D-94
Petch, T.....	D-77
Peterson, W. J.....	D-85
Peto, H. B.....	D-86
Pfaff, H. L.....	D-87
Pierce, J. H.....	D-75
Pierre, W. H.....	D-91
Pinto da Silva, A. R.....	D-79
Pirone, P. P.....	D-91, D-97
Pittier, Henri.....	D-75
Pöllnitz, Karl von.....	D-75
Polunin, Nicholas.....	D-73
Ponnaiya, B. W. X.....	D-90
Popenoe, Wilson.....	D-80
Posnette, A. F.....	D-98
Presley, J. T.....	D-88
Price, Charles.....	D-95
Pyke, Magnus.....	D-81
Quisenberry, K. S.....	D-86
Quraishi, A. R.....	D-76
Raghavan, T. S.....	D-83, D-95
Ramakrishnan, T. S.....	D-77
Ramanujam, S.....	D-92, D-99
Ramasamy, K.....	D-87
Ramiah, K.....	D-87
Ramsbottom, John.....	D-77
Raychaudhuri, S. P.....	D-77
Record, S. J.....	D-75
Rennie, J. V. L.....	D-80
Resende, Flávio.....	D-75
Reynard, G. B.....	D-98
Reynolds, Howard.....	D-89
Rezende Pinto, M. C. de.....	D-77
Rice, M. A.....	D-78
Ricker, P. L.....	D-75
Ridgway, H. W.....	D-93
Robbins, W. J.....	D-73, D-83
Roberts, J. L.....	D-91, D-100
Robertson, D. W.....	D-87, D-91
Robinson, R. R.....	D-91
Rodrigues, Acúrcio.....	D-90
Rodriguez Sardiña, Juan.....	D-77
Rojas, Ulises.....	D-91
Roldan, E. F.....	D-97
Rosen, H. R.....	D-87
Rowntree, Lester.....	D-97
Ruiz Castro, Aurelio.....	D-86
Runyon, E. H.....	D-78
Russell, E. W.....	D-95

	Page		Page
Salinas, J. G.....	D-95	Street, O. E.....	D-100
Salvoza, F. M.....	D-80	Stringfield, G. H.....	D-87
Samson, R. W.....	D-99	Strong, F. C.....	D-97
Sane, P. V.....	D-78	Suranarayana Murty, G.....	D-83
Sax, Karl.....	D-81	Sutcliffe, Dorothy.....	D-78
Schroeder, W. T.....	D-99	Swanson, C. P.....	D-83
Scott, D. H.....	D-90	Swartley, J. C.....	D-83
Sen, S. K.....	D-91	Syme, P. S.....	D-85
Severin, H. H. P.....	D-93		
Shannon, E. L.....	D-83	Tanada, T.....	D-101
Sharman, B. C.....	D-87	Tatum, E. L.....	D-76
Shaughnessy, Joe.....	D-94	Taylor, A. J.....	D-92
Shavel, John, jr.....	D-81	Thatcher, F. S.....	D-94
Shaver, J. H.....	D-87	Thayer, J. W., jr.....	D-87
Shaw, B. T.....	D-100	Thompson, R. C.....	D-81
Sherman, G. D.....	D-86	Thomson, J. S.....	D-93
Sherman, M. S.....	D-100	Tiffany, H. S.....	D-93
Shifriss, Oved.....	D-99	Tims, E. C.....	D-77
Shreve, Forrest.....	D-80	Tingley, M. A.....	D-84
Sideri, D. I.....	D-100	Tippo, Oswald.....	D-75
Sievers, A. F.....	D-88	Trelease, S. F.....	D-84
Silberschmidt, Karl.....	D-94	Tryon, H. H.....	D-100
Simonson, R. W.....	D-101	Tryon, R. M., jr.....	D-76
Simpson, G.....	D-93	Tseng, C. K.....	D-79
Singletary, B. H.....	D-99	Tukey, H. B.....	D-90
Sinha, S.....	D-97		
Skinner, E. T.....	D-97	Uribe, J. A.....	D-80
Small, James.....	D-80	Uribe, L. U.....	D-80
Smith, R. M.....	D-91	Urquijo-Landaluze, Pedro.....	D-77, D-97
Smits, B. L.....	D-85		
Snow, Robert.....	D-83	Vaile, J. E.....	D-89
Solomon, Samuel.....	D-85	Vallega, José.....	D-86
Soriano, S.....	D-101	Van Doren, Archibald.....	D-90
Sousa, M. C. F. de.....	D-87	Vanterpool, T. C.....	D-92
Spencer, E. L.....	D-85	Venkataraman, P. R.....	D-98
Sprague, Roderick.....	D-91	Venkatagubban, K. R.....	D-83
Sproston, Thomas, jr.....	D-91	Verma, G. S.....	D-97
Srinivasan, A. R.....	D-95	Vogel, O. A.....	D-86
Srinivasan, V. K.....	D-83		
Stakman, E. O.....	D-86	Wade, B. L.....	D-98
Steele, W. C.....	D-73	Wagener, W. W.....	D-97
Stevens, N. E.....	D-85, D-87	Waksman, S. A.....	D-85
Stevenson, P. J.....	D-94	Walker, E. H.....	D-75
Stevenson, N. S.....	D-80	Walker, J. C.....	D-99
Stewart, A. B.....	D-101	Waterhouse, G. M.....	D-77
Stewart, T. G.....	D-91	Weatherwax, Paul.....	D-73
Stokes, W. E.....	D-90	Weetman, L. M.....	D-87
Stone, W. E.....	D-94	Weihing, R. M.....	D-91
Storie, R. E.....	D-101	Weiss, Freeman.....	D-93
Stout, A. B.....	D-81, D-93	West, H. O.....	D-88
Straus, Werner.....	D-83	Wheeler, L. C.....	D-76

	<u>Page</u>
Whitaker, T. W.....	D-98,D-99
White, O. E.....	D-80
White, P. R.....	D-84,D-85
Whitfield, C. J.....	D-99
Wight, Christian.....	D-92
Wilde, S. A.....	D-101
Williams, E. G.....	D-101
Williams, L. O.....	D-76
Williams, R. H.....	D-76
Wilson, P. W.....	D-100

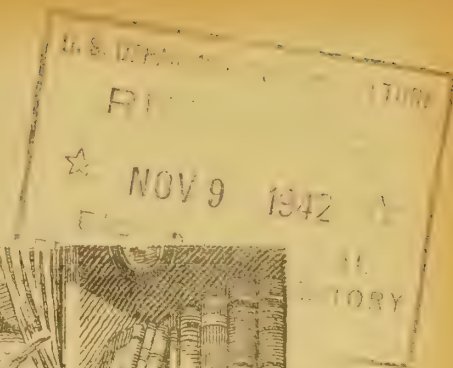
	<u>Page</u>
Withner, C. L.....	D-93
Wittenkamp, R.....	D-101
Wormald, H.....	D-90
Wright, Ernest.....	D-96
Zentmyer, G. A.....	D-96
Zimmerman, Percy W.....	D-84
Zundel, G. L.....	D-90
Zwaluwenburg, R. H. van.....	D-80

UNITED STATES DEPARTMENT OF AGRICULTURE
OFFICE OF INFORMATION
WASHINGTON, D. C.

Penalty for private use to avoid
payment of postage, \$300

OFFICIAL BUSINESS

UNITED STATES DEPARTMENT OF AGRICULTURE
Library



BIBLIOGRAPHY OF AGRICULTURE

SECTION D
PLANT SCIENCE

Vol. 1

October 1942

No. 4

The Bibliography of Agriculture is issued monthly
in five sections.

Section A, Agricultural Economics and Rural Sociology.
Supersedes Agricultural Economics Literature.

Section B, Agricultural Engineering. Supersedes Cur-
rent Literature in Agricultural Engineering.

Section C, Entomology. Supersedes Entomology Current
Literature.

Section D, Plant Science. Supersedes Plant Science
Literature.

Section E, Forestry. Continues Forestry Current
Literature, which ceased publication with v. 7,
no. 2, Mar.-Apr. 1940.

The edition of the Bibliography of Agriculture is so limited that
we are unable to fill all of the requests which we receive for it.
If you do not intend to file this publication permanently, please
return it to the Department of Agriculture Library so that it may be
made available to others.

Abbreviations used in this publication are those listed in U. S. Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications. April 1939.

Call numbers following the citations are those of the U. S. Department of Agriculture Library unless otherwise noted.

The Department can supply only its own publications; other items cited may ordinarily be obtained from their respective publishers. Many of them are available for consultation in public or other libraries.

Photoprint or microfilm copies of any publication listed may be obtained from the Library. Order blanks giving prices and method of payment will be sent on request.

BIBLIOGRAPHY OF AGRICULTURE

SECTION D
PLANT SCIENCE

Vol. 1

October 1942

No. 4

Libraries which have special collections on Viticulture and Enology are requested to send information about them to the library of the U. S. Department of Agriculture. The locations of such collections will be published in a later issue of this bibliography.

BOTANICAL SCIENCEGENERAL

- AMES, OAKES. The origin of the term Orchis. Amer. Orchid Soc. Bul. 11(5): 146-147. Oct. 1, 1942. 80 Am329
- BALFOUR, A. P. Annuals in war time. Roy. Hort. Soc. Jour. 67(1): 17-24, 3 pl. (fig. 2-5) Jan. 1942. 84 L84J
- BEARD, J. S. The use of the term "deciduous" as applied to forest types in Trinidad, B. W. I. Empire Forestry Jour. 21(1): 12-17. 1942. References. 99.8 Em72
- DODD, EILEEN K. A museum to Gregor Mendel. Commonwealth 9(9): 9-12, illus. Sept. 1942. 280.8 C732
Established at Mary Washington College, Fredericksburg, Va., under direction of Dr. Hugo Iltis.
- MATZKE, EDWIN B. The finest show on earth. Sci. Monthly 55(4): 349-354. Oct. 1942. 470 Sci23
Autumn foliage.
- MERRILL, ELMER D. Microfilm records of the Linnean society of London. Science 96(2494): 352-353. Oct. 16, 1942. 470 Sci2
Records of all Linnean manuscripts and specimens are now made, through a grant from the Carnegie Corporation to the Linnean Society.
- PAM, ALBERT. Wormley Bury gardens, 1785-1825. Roy. Hort. Soc. Jour. 66(9): 308-312, pl. (fig. 102) Sept. 1941. 84 L84J
- PARHAM, B. E. V. Climbing plants suitable for camouflage. Fiji Dept. Agr. Agr. Jour. 13(2): 52. June 1942. 25 F47Ag
- RICKER, PERCY L. Standardized plant names. Science 96(2491): 296-297. Sept. 25, 1942. 470 Sci2
- RUSSELL, EDWARD J. Rothamsted and its experiment station. Agr. Hist. 16(4): 161-183. Oct. 1942. Bibliographical footnotes. 30.98 Ag8
- WILSON, MILBURN L. Survey of scientific agriculture. Amer. Phil. Soc. Proc. 86(1): 52-62. Sept. 25, 1942. Literature cited. 500 P533

BIOGRAPHY

- B., J. H. Herbert McKenzie Denslow. Torrey Bot. Club Bul. 69(7): 479, front. (port.) Oct. 1942. 451 T63B
- BALFOUR, FREDERICK R. S. David Douglas. Roy. Hort. Soc. Jour. 67(4, 5): 121-128, 153-162, map (fig. 42). Apr., May 1942. 84 L84J
- BERNALD, MERRITT L. Some early botanists of the American philosophical society. Amer. Phil. Soc. Proc. 86(1): 63-71. Sept. 25, 1942. 500 P533
- THE FOUNDERS. William Forsyth (1737-1804). Roy. Hort. Soc. Jour. 66(9): 319-324. Sept. 1941. 84 L84J
- Of the Royal Horticultural Society, London.
- HILL, ARTHUR W. Sir William Hooker, first director of Kew, 1841-1865. Roy. Hort. Soc. Jour. 66(5): 154-157. May 1941. 84 L84J
- HUNKIN, J. W. William and Thomas Lobb: Two Cornish plant collectors. Roy. Hort. Soc. Jour. 67(2): 48-51. Feb. 1942. 84 L84J
- KERN, FRANK D. Joseph Charles Arthur, 1850-1942. Phytopathology 32(10): 833-844, front. (port.) Oct. 1942. Bibliography. 464.8 P56
- MAW, DORA. The romance of a garden. Two illustrious directors. (concl.) Roy. Hort. Soc. Jour. 66(5): 158-164. May 1941. Bibliography. 84 L84J
- Pierre Richer de Belleval and Pierre Marie Auguste Broussonet.
- MOORE, FREDERICK. Augustine Henry, 1857-1930. Roy. Hort. Soc. Jour. 67(1): 10-15, port. (fig. 1) Jan. 1942. 84 L84J
- PENNELL, FRANCIS W. Benjamin Smith Barton as naturalist. Amer. Phil. Soc. Proc. 86(1): 108-122. Sept. 25, 1942. Bibliographical footnotes. 500 P533
- ROLLESTON, J. D. Dr. F. Dawtrey Drewitt. Nature (London) 150(3799): 228-229. Aug. 22, 1942. 472 N21
- Died July 29, 1942.
- STEINER, HANS. Hans Schinz (1858-1941). Vierteljahrsschr. Naturf. Gesell. Zürich 86(3/4): 376-378. Dec. 31, 1942. 508 Z8
- Died Oct. 30, 1941.
- SUYDAM, ANNA B. Early botanists of Rochester and vicinity and the botanical section. II. Rochester Acad. Sci. Proc. 8(4): 124-149, ports. Sept. 10, 1942. 500 R58
- TAYLOR, MRS. H. J. To plant the prairies and the plains. The life and work of Niels Ebbesen Hansen. 89 pp., front. (port.), plates. Mount Vernon, Iowa, Bios, 1941. 120 E51
- Reprinted from Bios, v. 12, no. 1, Monograph series, Mar. 1941.
- TEALE, EDWIN W. William T. Davis. An appreciation. Brooklyn Ent. Soc. Bul. 37(4): 118-126, ports. Oct. 1942. 420 B79
- WILLIAM Forsyth (1737-1804). A Parliamentary grant and its sequel. Roy. Hort. Soc. Jour. 66: 374-381, pl. facing p. 363 (port.) Oct. 1941. 84 L84J

SYSTEMATIC BOTANY

- AHRENDT, LESLIE W. A. A survey of the genus Berberis L. in Asia. (cont.) Jour. Bot. 80(951, sup.): 89-96. Mar. 1942. 450 J82
- B. teaselliana, B. helenae, B. walterana n. spp.
- BROWN, JOHN R. Notes on haworthias. (cont.) Cactus and Succulent Jour. 14(9): 132-133, illus. Sept. 1942. 451 C11

- BROWN, WALTER V. *Panicum bennettense*, a new species from North Carolina. Torrey Bot. Club Bul. 69(7): 539-540, illus. Oct. 1942. 451 T63B
- BURNS, GEORGE W. The taxonomy and cytology of *Saxifraga pensylvanica* L. and related forms. Amer. Midland Nat. 28(1): 127-160, illus. (incl. maps). July 1942. References. 410 M58
- CLARK, ROBERT B. A revision of the genus *Bumelia* in the United States. Mo. Bot. Gard. Ann. 29(3): 155-182, illus. (map) Sept. 1942. Bibliographical footnotes. 451 M69
- CROIZAT, LEON. *Amoenitates cactologicae*. II. Desert Plant Life 14(7): 134-136. Sept. 1942. 450 D45
Cites *Cereus dumortieri* and *Echinocactus insculptus* as illustration of Scheidweiler's work in publishing as new the same names and confusing localities and specimens.
- CROIZAT, LEON. Is *Binghamia* valid? Cactus and Succulent Jour. 14(9): 126-128. Sept. 1942. 451 C11
Binghamiella Setchell and Daws. is a synonym of *Binghamia* Agardh, an alga; *Binghamia*, the cactus, has no standing.
- CUATRECASAS, JOSÉ. *Cucurbitaceae novae colombianae*. I. *Caldasía* (Bol. Inst. Cien. Nat. Univ. Nac. Colombia) 5: 21-28. Aug. 1, 1942. 516 C12
New species of *Gurania* and *Cayaponia*.
- DUGAND, ARMANDO. Dos adiciones a las especies nuevas colombianas del genero *Ficus*. *Caldasía* (Bol. Inst. Cien. Nat. Univ. Nac. Colombia) 5: 37-39. Aug. 1, 1942. 516 C12
F. soatensis, *F. chaponensis*.
- DUGAND, ARMANDO. Dos nuevas bignoniaceas del Valle del Magdalena. *Caldasía* (Bol. Inst. Cien. Nat. Univ. Nac. Colombia) 5: 29-35, illus. Aug. 1, 1942. 516 C12
Memora romeroi and *Tanaecium exitiosum*.
- DUGAND, Armando. Nota adicional sobre *Mauritia minor* Burret. *Caldasía* (Bol. Inst. Cien. Nat. Univ. Nac. Colombia) 5: 40. Aug. 1, 1942. 516 C12
- FERNALD, MERRITT L. Critical notes on *Carex*. *Rhodora* 44(525): 261-331, illus. (maps), pl. 710-716. Sept. 1942. 450 R34
C. terrae-novae n. sp.
- FERNALD, MERRITT L. Three transfers in the Compositae. *Rhodora* 44(525): 340. Sept. 1942. 450 R34
Erigeron strigosus f. *discoideus* (*E. ramosus* f. *discoideus*), *E. strigosus* var. *septentrionalis* (*E. ramosus* var. *septentrionalis*), *Heliopsis helianthoides* var. *scabra* (*H. scabra*).
- H., V. What's in a name? Roy. Hort. Soc. Jour. 66(12): 451-454, pl. (fig. 145). Dec. 1941. 84 L84J
Discussion of changes in plant names and differences in spelling.
- JACOB, K. T. Cytological studies in the genus *Sesbania*. Bibliog. Genet. 13(3): 225-300, illus. Feb. 1941. Literature cited. 442 D47
- LASSER, T. *Laureáceas nuevas de Venezuela*. Venezuela Min. Agr. y Cria Bol. Tec., no. 3, 19 pp., xv pl. 1942. 9.95 Ag82
- LINDSAY, GEORGE. Giant cacti of Lower California. Desert Plant Life 14(7): 129-133, illus. (incl. map) Sept. 1942. 450 D45
Notes about the genus *Pachycereus* in Lower California.

- MELVILLE, RONALD. The botanical source of Indian Belladonna. Jour. Bot. 80(951): 54-55. Mar. 1942. 450 J82
From *Atropa acuminata* (*A. lutescens*), species distinct from the European *A. belladonna*.
- MERRILL, ELMER D. A generally overlooked Rafinesque paper. Amer. Phil. Soc. Proc. 86(1): 72-90. Sept. 25, 1942. Bibliographical footnotes. 500 P533.
"Remarques botaniques sur quelques plantes de l'Amérique septentrionale, dans les quatre premiers volumes du Prodrômus ou Synopsis plantarum de la Candolle."
- MORAN, REID. Delimitation of genera and sub-families in the Crassulaceae, with special reference to the Echeverioideae. Desert Plant Life 14(7): 125-128, front. Sept. 1942. Literature cited. 450 D45
- MULLIGAN, B. C. *Tibouchina semidecandra*. Roy. Hort. Soc. Jour. 66(5): 175-176, pl. (fig. 63). May 1941. 84 L84J
- RAGONESE, ARTURO E., and COVAS, GUILLERMO. Flora de Santa Fe, las palmeras. Santa Fé, (Argentina) Inst. Expt. Invest. y Fomento Agr. Ganad. Pub. Tec. no. 38, [17] pp., illus., ii pl. 1942. Footnotes. 102.5 Sa52
Reprinted from "Darwiniana, tomo 4, nos. 2-3, páginas 285-302."
- RATERA, ENRIQUE L. Los *Solanum* aculeados de la capital federal y sus alrededores. Agronomía (Buenos Aires) 30(4): 360-368, illus. June 1942. Bibliographical footnotes. 9 B864
- RUPP, HERMAN M. R. *Corybas* or *Corysanthes*? Victorian Nat. 59(4): 60-61. Aug. 1942. 410 V66
Corybas established and *Corysanthes* rejected by International Council of Nomenclature.
- SANDWITH, NOEL Y. On the identification of Aublet's four species of *Caraipa*. Jour. Bot. 80(951): 51-54. Mar. 1942. 450 J82
Of the four species described by Aublet only *C. parvifolia* is a *Caraipa* and type of the genus.
- SCHERY, ROBERT W. Monography of *Malvaviscus*. Mo. Bot. Gard. Ann. 29(3): 183-238, illus. (incl. maps), pl. 14-17. Sept. 1942. Bibliographical footnotes. 451 M69
Includes *Pavonia firmiflora* n. sp. (to which are referred Pringle specimens wrongly identified as *M. acerifolius*) and *P. palmeri* n. comb. (*M. palmeri* Baker, *M. cinereus* Baker, *P. amplifolia* Standl.)
- SHINNERS, LLOYD H. The status of *Aster longulus* Sheldon. Rhodora 44(525): 338-339. Sept. 1942. 450 R34
Hybrid of *A. junciformis* and *A. puniceus*.
- SMITH, LYMAN B. Bromeliaceas notables de Colombia. II. *Caldasia* (Ból. Inst. Cien. Nat. Univ. Nac. Colombia) 5: 5-10, illus. Aug. 1, 1942. 516 G12
Billbergia rupestris, *Guzmania cryptantha*, *Pitcairnia heliophila*, *Streptocalyx* n. spp.
- STOKER, FRED. *Cassiope lycopodioides* var. *major* var. nov. (*Cassiope rigida* Hort.) Roy. Hort. Soc. Jour. 66(8): 277-278, 2 pl. (fig. 93-95). Aug. 1941. 84 L84J
- SUMNERHAYES, VICTOR S. African orchids. XII. Harvard Univ. Bot. Mus. Leaflet 10(9): 257-299. Oct. 9, 1942. 481 E262

- TURRILL, WILLIAM B. Taxonomy and phylogeny. II. Taxonomic and phylogenetic concepts and criteria. Data used in classification and phylogenetic studies. Bot. Rev. 8(8): 473-532. Oct. 1942. 450 B6527
- WALKER, EGBERT H. Two new dwarf species of *Rubus* from western China and Tibet and their Asiatic relatives. Wash. Acad. Sci. Jour. 32(9): 260-262. Sept. 15, 1942. 500 W276J
R. yui, *R. clivicola*.
- WILLIAMS, LOUIS O. Algunas orquidaceas americanas. Caldasia (Bol. Inst. Cien. Nat. Univ. Nac. Colombia) 5: 11-16, illus. Aug. 1, 1942. 516 C12
Bletia carabaiiana n. sp.
- WILLIAMS, LOUIS O. Two new species of *Pleurothallis* from Mexico. Amer. Orchid Soc. Bul. 11(5): 166-168, pl. 5. Oct. 1, 1942. 80 Am329
P. eximia, *P. nigriflora*.
- WILLIS, JOHN H. Botanical "bulls." Victorian Nat. 59(4): 72. Aug. 1942. 410 V66
 Three of four new genera described in A. J. Ewart and O. B. Davies' Flora of the Northern Territory (1917), considered invalid.
- WOODSON, ROBERT E., JR. Commentary on the North American genera of Commelinaceae. Mo. Bot. Gard. Ann. 29(3): 141-154. Sept. 1942. 451 M69
- YUNCKER, THURMAN G. Three new cuscutas from western North America. Torrey Bot. Club Bul. 69(7): 541-543, illus. Oct. 1942. 451 T63B
Cuscuta runyonii, *C. serruloba* n. spp., *C. salina papillata* n. var.

FERNS AND FERN ALLIES

- CHRYSLER, MINTIN A. An unusual Botrychium. Amer. Fern Jour. 32(3): 87-89, illus. July/Sept. 1942. 450 A35
B. lunaria.
- CLAUSEN, ROBERT T. Ophioglossum vulgatum on the inner Coastal Plain of Alabama. Amer. Fern Jour. 32(3): 105-108. July/Sept. 1942. Literature cited. 450 Am35
- EWAN, JOSEPH. Annotations on West American ferns. II. Amer. Fern Jour. 32(3): 90-104, pl. 10. July/Sept. 1942. Bibliographical footnotes. 450 Am35
Notholaena californica and *Polystichum munitum*.
- HOLMGREN, ARTHUR H. A rare Selaginella from northeastern Nevada. Amer. Fern Jour. 32(3): 86-87. July/Sept. 1942. 450 Am35
S. selaginoides.
- MANTON, IRENE. A note on the cytology of Psilotum with special reference to vascular prothalli from Rangitoto Island. Ann. Bot. [London] (n.s.) 6(22): 283-292, illus., pl. viii. Apr. 1942. Literature cited. 450 An7
- TRYON, ROLLA M., JR. A new Dryopteris hybrid. Amer. Fern Jour. 32(3): 81-85, pl. 8-9. July/Sept. 1942. 450 Am35
D. fragrans var. *remotiuscula* x *spinulosa* var. *intermedia*.
- WATERS, CAMPBELL E. Proliferous Scott's spleenwort. Amer. Fern Jour. 32(3): 109-111. July/Sept. 1942. 450 Am35
- WHERRY, EDGAR T. Go slow on eating fern fiddleheads. Amer. Fern Jour. 32(3): 108-109. July/Sept. 1942. 450 Am35

WHERRY, EDGAR T. *Lycopodium sabinaefolium* in Pennsylvania. Amer. Fern Jour. 32(3): 111-113. July/Sept. 1942. 450 Am35

FUNGI

- BARGHOORN, ELSO S., JR. The occurrence and significance of marine cellulose-destroying fungi. Science 96(2494): 358-359. Oct. 16, 1942. 470 Sci2
- CAMARA, EMMANUELE de S. da, and GOMES da LUZ, CARLOS. Mycetes aliquot Lusitaniae. IV. Agron. Lusitana (Portugal) 3(1): 25-46, pl. 1941. 105.7 Ag8
- CUTTER, VICTOR M., JR. Nuclear behavior in the Mucorales. I. The Mucor pattern. Torrey Bot. Club Bul. 69(7): 480-508, illus. Oct. 1942. Literature cited. 451 T63B
- DOBBS, C. G. A mucorine parasite on *Penicillia*. Nature (London) 150(3802): 319, illus. Sept. 12, 1942. 472 N21
- Piptocephalis* sp. on *Penicillium*.
- FITZPATRICK, HARRY M. Revisionary studies in the Coryneliaceae. II. The genus *Caliciopsis* (*C. pseudotsugae*, *C. symploci* n. spp.) Mycologia 34(5): 489-514, illus. Sept./Oct. 1942. Bibliographical footnotes. 450 M99
- HAGELSTEIN, ROBERT. A new genus of the Mycetozoa. Mycologia 34(5): 593-594. Sept./Oct. 1942. 450 M99
- Elaeomyxa*, *E. cerifera* and *E. miyazakiensis* comb. nov. (Diachea). Author regards it as constituting a distinct family, the *Elaeomyxaceae*.
- HENRY, LeROY K. A review of the pileate polypores of western Pennsylvania. Pittsburgh, Carnegie Mus. Ann. (1940/42) 28: 221-270, pl. xxvi-xxix. Feb. 1942. (Mar. 27, 1941) Bibliography. 500 P68A
- HONEY, EDWIN E. *Monilinia amelanchieris*. Mycologia 34(5): 575-578. Sept./Oct. 1942. 450 M99
- M. amelanchieris* comb. nov. (*Sclerotinia*) occurring on *Amelanchier intermedia*.
- LINDER, DAVID H. A contribution towards a monograph of the genus *Oidium* (Fungi imperfecti). Lloydia 5(3): 165-207, illus. Sept. 1942. 442.8 L77
- LONG, WILLIAM H. Studies in the Gasteromycetes. VI. Mycologia 34(5): 532-535. Sept./Oct. 1942. 450 M99
- The genus *Bovistoides*. *Phellorina macrospora* Lloyd.
- MURRILL, WILLIAM A. Florida resupinate polypores. Mycologia 34(5): 595-596. Sept./Oct. 1942. 450 M99
1. *Poria* (Pers.) S. F. Gray. 2. *Perenniporia* gen. nov. 3. *Physisporinus* P. Karst. 4. *Meruliporia* gen. nov. 5-11. *Hydnoporia-Melanoporia*. Abstract from a paper by the author on "Florida Polyporaceae," to appear in bulletin form.
- RAY, WILLIAM W. Notes on Oklahoma Cercosporae. II. Mycologia 34(5): 558-562. Sept./Oct. 1942. 450 M99
- C. cocculicola*, *C. kolkwitziae*, *C. physocarpi*, *C. corylina* n. spp.
- REA, PAUL M. Fungi of southern California. I. *Battarreia* Pers. The gleba in *Battarreia*. Mycologia 34(5): 563-574, illus. Sept./Oct. 1942. Literature cited. 450 M99
- ROBBINS, WILLIAM J. A pyrimidine analog of thiamine and the growth of fungi. Natl. Acad. Sci. Proc. 28(9): 352-355. Sept. 1942. 500 N21P
- Experiments with *Phycomyces blakesleeanus*, *Pythiomorpha gonapodydes*, *Phytophthora cinnamomi*.

- ROBBINS, WILLIAM J., MACKINNON, JUAN E., and MA, ROBERTA. Vitamin deficiencies of *Trichophyton discoides*. *Torrey Bot. Club Bul.* 69(7): 509-521, illus. Oct. 1942. Literature cited. 451 T63B
- ROUTIEN, JOHN B. Notes on fungi previously unreported from Missouri. *Mycologia* 34(5): 579-583. Sept./Oct. 1942. 450 M99
- SEAVER, FRED J., and WATERSTON, JOHN M. Contributions to the myco-flora of Bermuda. III. *Mycologia* 34(5): 515-524, illus. Sept./Oct. 1942. 450 M99
- Helotium conocarpi*, *Amphisphaeria fuispora* n. spp.
- SEANOR, LELAND, and OLIVE, LINDSAY S. Notes on *Araiospora streptandra*. *Mycologia* 34(5): 536-542, illus. Sept./Oct. 1942. Literature cited. 450 M99
- A. streptandra* var. *echinulosphaera* var. nov. collected on cherry birch twigs at Harbison Lake, Highlands, N. C.
- THIND, KARTAR S. *Puccinia phyllocladiae* Cooke, a new record for India. *Indian Bot. Soc. Jour.* 21(3/4): 195-196, illus. May 1942. References. 450 J821
- VERRALL, ARTHUR F. A comparison of *Diplodia natalensis* from stained wood and other sources. *Phytopathology* 32(10): 879-884. Oct. 1942. Literature cited. 464.8 P56
- WHETZEL, HERBERT H. *Ciliospora albida*. *Mycologia* 34(5): 525-531, illus. Sept./Oct. 1942. Literature cited. 450 M99
- On *Prunus serotina*.
- WHETZEL, HERBERT H. A new genus and new species of brown-spored inoperculate discomycetes from Panama. *Mycologia* 34(5): 584-591, illus. Sept./Oct. 1942. 450 M99
- Martinia* (*M. panamaensis*)
- WHIFFEN, ALMA J. Two new chytrid genera. *Mycologia* 34(5): 543-557, illus. Sept./Oct. 1942. Literature cited. 450 M99
- Solutoparies* (*S. pythii*), *Septosperma* (*S. rhizophidii*)
- YARWOOD, CECIL E., and HAZEN, W. E. Vertical orientation of powdery mildew conidia during fall. *Science* 96(2492): 316-317. Oct. 2, 1942. 470 Sci2
- ZAGALLO, A. CORDEIRO. Influência de temperatura no desenvolvimento e frutificação do *Coryneum longistipitatum* Berl. et Bres. *Agron. Lusitana* (Portugal) 3(2): 121-127, ii pl. 1941. Literature cited. 105.7 Ag8
- German summary.

OTHER CRYPTOGRAMS

- BURR, GEORGE O. Photosynthesis of algae and other aquatic plants. In *A symposium on hydrobiology*, pp. 163-181, illus. Madison, University of Wisconsin, 1941. References. 442 W75
- DIXON, HUGH N. Madagascar mosses. *Jour. Bot.* 80(951): 41-50, pl. 627. Mar. 1942. 450 J82
- Serpotortella* n. gen. (*S. madagassa*)
- HOLLENBERG, GEORGE J. Phycological notes. I. *Torrey Bot. Club Bul.* 69(7): 528-538, illus. Oct. 1942. Literature cited. 451 T63B
- Includes *Pterochondria* n. gen. (*P. pygmaea* comb. nov.)
- INGRAM, WILLIAM. Bryophyta of West Yorkshire. *North West. Nat.* 17(1/2): 66-83. Mar./June 1942. 410 N81
- Originally prepared to form part of a projected supplement to

- F. Arnold Lees' Flora of West Yorkshire (1888), this present publication covers material from 1888 to January 1, 1912.
- IYENGAR, MANDAYAN O. P., and SUBRAHMANYAN, R. On reduction division and auxospore-formation in *Cyclotella meneghiniana* Kütz. Indian Bot. Soc. Jour. 21(3/4): 231-237, illus., pl. x. May 1942. Literature cited. 450 J821
- Preliminary note.
- IYENGAR, MANDAYAN O. P., and RAMANATHAN, K. R. Triplastrum, a new member of the Desmidiaceae from South India. Indian Bot. Soc. Jour. 21(3/4): 225-229, illus., pl. ix. May 1942. Literature cited. 450 J821
- T. indicum* n. sp., *T. abbreviatum* (*Triploceros abbreviatum*) n. comb.
- JOHN, R. P. An ecological and taxonomic study of the algae of British soils. I. The distribution of the surface-growing algae. Ann. Bot. [London] (n.s.) 6(22): 323-349. Apr. 1942. Literature cited. 450 An7
- KOL, ERZSEBET. The snow and ice algae of Alaska. Smithsn. Inst. Misc. Collect. v. 101, no. 16, 36 pp., illus., 6 pl. (1 col.), fold. map. Sept. 19, 1942. (Pub. 3683) Literature cited. 500 Sm6M
- MOEWUS, FRANZ. Zur sexualität der niederen organismen. I. Flagellaten und algen. Ergeb. der Biol. 18: 286-356, illus. 1941. Literature cited. 442 Er3
- SINGH, PAMA N. A new species of the genus *Raphidiopsis* Fritsch and Rich (*Raphidiopsis indica* sp. nov.) exhibiting morphological variants. Indian Bot. Soc. Jour. 21(3/4): 239-243, illus. May 1942. Literature cited. 450 J821
- WIEDLING, STEN. Effect of sulphanilamides on the growth of micro-organisms in presence and absence of p-aminobenzoic acid. Nature (London) 150(3801): 290-291. Sept. 5, 1942. Bibliographical footnotes. 472 N21
- WILLIAMS, E. G. Notes on the plankton of two Welsh lakes. North West. Nat. 17(1/2): 36-38. Mar./June 1942. 410 N81
- Bala Lake, Merionethshire and Lake Crafnant, Caernarvonshire.

GEOGRAPHIC BOTANY AND ECOLOGY

- ACOSTA SOLIS, MISAEI. Maderas más conocidas y usadas en la Prov. de Esmeraldas (Ecuador). Clasificación por la dureza y compatibilidad de sus fibras, por la duración y por sus usos y aplicaciones. (cont.) Maderil 14(168): 11-16. June 1942. 99.82 M26
- BLACKMAN, G. E. Statistical and ecological studies in the distribution of species in plant communities. I. Dispersion as a factor in the study of changes in plant populations. Ann. Bot. [London] (n.s.) 6(22): 351-370. Apr. 1942. Literature cited. 450 An7
- CLAUSEN, ROBERT T. Aquatic vegetation of the Lake Ontario watershed. In A biological survey of the Lake Ontario watershed. N. Y. Conserv. Dept. Ann. Rpt. Sup. (1939) 29: 167-187, illus. 1940. 279.9 N48
- Annotated list of the larger aquatic plants of the Lake Ontario watershed, pp. 180-187.
- CROOK, H. CLIFFORD. Some Swiss wild flowers. Alpine Gard. Soc. Quart. Bul. 10(3): 145-153, 4 pl. Sept. 1942. 84 A16

- CUATRECASAS, JOSE. Estudios sobre plantas andinas. III. Caldasia (Bol. Inst. Cien. Nat. Univ. Nac. Colombia) 5: 17-19, illus. Aug. 1, 1942. 516 C12
Puya lepidota n. sp.
- DEGENER, OTTO. Flora Hawaiiensis; the new illustrated flora of the Hawaiian islands. v. 4, [313 pp.] illus. [Honolulu, 1940] 460.53 D36F
- FLINTOFF, ROBERT J. The natural history of Goathland. III. The flowering plants and ferns. An ecological study. (cont.) North West. Nat. 17(1/2): 84-100. Mar./June 1942. 410 N81
- FLOWERS of the Canadian Rockies. Alpine Gard. Soc. Quart. Bul. 10, pp. 163-164, 3 pl. Sept. 1942. 84 A16
Romanzoffia sitchensis, Saissurea densa, Aquilegia flavescens, Dryas drummondii.
- HARRISON, JOHN W. H., and others. The flora of the isles of Coll, Tiree and Gunna (V.-C.110B). Durham Univ. Phil. Soc. Proc. 10(4): 274-308, fold. map. Dec. 1941. 501 D93
Helena H. Harrison, William A. Clerk, and R. B. Cooke, joint authors. In the islands of the Inner Hebrides.
- HARRISON, JOHN W. H. A preliminary flora of the Outer Hebrides. Durham Univ. Phil. Soc. Proc. 10(4): 228-273, map, 6 pl. Dec. 1941. 501 D93
- HOTCHKISS, NEIL. The limnological role of the higher plants. In A symposium on hydrobiology, pp. 152-162. Madison, University of Wisconsin, 1941. References. 442 W75
- JACQUES, C. Quelques plantes Néo-Calédoniennes dont il faut se méfier. Rev. Agr. de la Nouvelle-Calédonie 1942: 4722-4726. June 1942. 25 N43
- MCCONNELL, RUTH. More Palestine plants. Alpine Gard. Soc. Quart. Bul. 10(3): 172, 2 pl. Sept. 1942. 84 A16
Ornithogalum tenuifolium trichophyllum, Romulea bulbocodium, Clematis cirrhosa.
- MCGINNIES, WILLIAM G., PARKER, KENNETH W., and GLENDENING, GEORGE E. Southwestern range ecology. 211 pp., plates (incl. map) processed. [Tucson, U. S. Forest service, Southwestern forest and range experiment station] Feb. 1941. Literature cited. 1.9622 S3S08
- MACKAY, JOSEPH H. Some applications of grassland ecology in Nigeria. Imp. Bur. Pastures and Forage Crops. Herbage Abs. Sup. (Aberystwyth) 12(4): S73-S76. Aug. 1942. References. 241 Im733
Reprinted from Nigerian Forester v. 1, no. 2, pp. 62-66. 1940.
- MCTAGGART, ALEXANDER. Plant introduction. 1. A review, with notes on outstanding species. Austral. Council Sci. & Indus. Res. Pam. 114, pp. 5-14. 1942. 514 Au72P
- OOSTING, HENRY J. An ecological analysis of the plant communities of Piedmont, North Carolina. Amer. Midland Nat. 28(1): 1-126, illus. July 1942. References. 410 M58
- PALTRIDGE, TERENCE B. Plant introduction. 2. Preliminary selection and evaluation of pasture species at Lawes (Queensland). Austral. Council Sci. & Indus. Res. Pam. 114, pp. 15-30. 1942. 514 Au72P
- PARODI, LORENZO R. Por qué no existen bosques naturales en la llanura bonaerense si los árboles crecen en ella cuando se los cultiva? Agronomia (Buenos Aires) 30(4): 387-390, pl. June 1942. 9 B864

- PICKFORD, G. D., and REID, ELBERT H. Guides to determine range condition and proper use of mountain meadows in eastern Oregon. U. S. Forest Serv. Pacific Northwest and Range Expt. Sta. Range Res. Rpt. no. 3, 19 pp., pl. Portland, Oreg., July 1942. 1.9622 P2R16
- REDGROVE, HERBERT S. Mysterious woad. Gard. Chron. 112(2906): 84-85. Sept. 5, 1942. 80 G162
- Isatis tinctoria*, occurrence in England.
- ROLAND, ALBERT E., and DORE, WILLIAM G. Notes on the flora of Nova Scotia. III. Rhodora 44(525): 334-338. Sept. 1942. 450 R34
- SWEET, JACK. Florida native orchids in bloom. Amer. Orchid Soc. Bul. 11(5): 152, illus. Oct. 1, 1942. 80 Am329
- Polyrrhiza lindenii*.
- VARGAS C., CÉSAR. The ornamental flora of the rocky cliffs of Sajsaihuaman, Cuzco, Peru. Natl. Hort. Mag. 21(3): 117-129, illus. July 1942. 80 N216
- WALLACE, GEORGE J. More Berkshire plants. Rhodora 44(525): 332-334. Sept. 1942. 450 R34
- Pleasant Valley bird and wild flower sanctuary in Lennox, Massachusetts.
- WEATHERBY, CHARLES A. *Apocynum sibiricum* var. *cordigerum* in New England. Rhodora 44(525): 331-332. Sept. 1942. 450 R34
- Near Springfield, Vermont, new and easternmost station.
- WELLS, BERTRAM W. Ecological problems of the southeastern United States coastal plain. Bot. Rev. 8(8): 533-561. Oct. 1942. Bibliography. 450 B6527
- WERDERMANN, ERICH. Brazil and its columnar cacti. Translated by R. W. Kelly. (cont.) Cactus and Succulent Jour. 14(9, sup.): 25-32, illus. Sept. 1942. 451 C11
- WILLIS, JAMES H. Notes on Victorian Rhamnaceae. 2. (a) Concerning *Pomaderris velutina*. (b) Distribution of *Discaria australis*, Hook. f. Victorian Nat. 59(4): 67-69. Aug. 1942. 410 V66

ECONOMIC BOTANY

- KARR, A. E. Lichen colors. Textile Colorist 64(765): 431-436. Sept. 1942. 306.8 T31
- LI, HUI-LIN. Bamboo and Chinese civilization. N. Y. Bot. Gard. Jour. 43(513): 213-223, illus. Sept. 1942. 451 N48J
- PARHAM, B. E. V. Some useful plants of the Fiji islands. I. Food plants. Fiji Dept. Agr. Jour. 13(2): 39-47. June 1942. 25 F47Ag
- REXFORD, ORCELLA. 101 useful weeds and wildlings. 143 pp., illus. San Francisco, Calif., Edwards bros., 1941. 452.8 R32
- ROHDE, ELEANOR S. Culinary and salad herbs, their cultivation and food values with recipes. 106 pp., front., illus. London, Country life ltd. [1940], 97.21 R34
- SMALL, JAMES. Fenugreek. A pocket-lens study. Food 11(132): 249-251, illus. Sept. 1942. 389.8 F738

PALEOBOTANY

- BERRY, EDWARD W. Mesozoic and Cenozoic plants of South America, Central America, and the Antilles. Amer. Sci. Cong., 8th, Washington, 1940, 4: 365-373. 1942. 330.9 Am3008

- HARRIS, TOM M. Notes on the Jurassic flora of Yorkshire. Ann. and Mag. Nat. Hist. (London) 9(56): 568-587, illus. Aug. 1942. Literature. 410 An77
1. *Ptilophyllum caytonense* sp. n. 2. *Deltolepis credipota* gen. et sp. nov. 3. On *Nilssonia compta* and its reference to *Beania gracilis*.
- SAHNI, BIRBAL. Palaeobotany in India. III. Progress report for 1941. Indian Bot. Soc. Jour. 21(3/4): 217-224, fold. map. May 1942. 450 J821
- SEWARD, ALBERT C. The past in the present. Roy. Hort. Soc. Jour. 66(6): 185-190. June 1941. 84 L84J

TECHNIQUE

- CORRINGTON, JULIAN D. Working with the microscope. 418 pp., front., illus. New York, Whittlesey house, 1941. 440 C81
- CROVETTO, RAUL M. La médula de hinojo en reemplazo de la médula de sauco. Agronomia (Buenos Aires) 30(4): 382-386, illus. June 1942. Literature cited. 9 B864
- GISAFRE, LORENZO, and RAGONESE, ARTURO E. Técnica para la recolección de polen en grandes cantidades. Santa Fé, (Argentina) Inst. Expt. Invest. y Fomento Agr. Canad. Pub. Tec. no. 33, [5] pp., illus. 1942. Bibliography. 102.5 Sa52
- Reprinted from "Revista de la Asociación médica Argentina, t. lvi, no. 483-484 (april 1942) págs. 250-252."
- PREBUS, ALBERT F. Field of application of the electron microscope. Veg. Growers' Assoc. Amer. Ann. Rpt. 1941: 76-80, illus. [1942] 81 V52
- TOBGY, H. A. Cytological methods for *Crepis* species. Stain Technol. 17(4): 171-175, illus. Oct. 1942. References. 442.8 St1

CHEMISTRY

- BIRKINSHAW, JOHN H., FINDLAY, WALTER P. K., and WEBB, ROBERT A. Biochemistry of the wood-rotting fungi. 3. The production of methyl mercaptan by *Schizophyllum commune* Fr. Biochem. Jour. 36(5/6): 526-529. June 1942. References. 382 B52
- BOIS, ELPHEGE, and SAVARY, JEAN. Les glucidases et les glucides d'*Ipomoea batatas* et de *Solanum tuberosum*. Canad. Jour. Res. Sect. B, Chem. Sci. 20(10): 195-201. Oct. 1942. Bibliography. 470 C16B
- BRIGGS, LINDSAY H., and RUSSELL, WILLIAM E. Sophora alkaloids. III. The alkaloids of the seeds of *S. chrysophylla*. [London] Chem. Soc. Jour. 1942: 507-509. Aug. 1942. 382 L84J
- CASTANEDA, M., GAVARRON, F. F., and BALCAZAR, MARÍA R. On a new protease from *Pileus mexicanus*. Science 96(2494): 365-366. Oct. 16, 1942. 470 Sci2
- CLAYTON, EDWARD E. Fungicidal value of the salicylates. Science 96(2494): 366. Oct. 16, 1942. 470 Sci2
- COHEN, ARTHUR L. The organization of protoplasm: a possible experimental approach. Growth 6(3): 259-272, illus. Sept. 1942. References. 442.8 G91
- Includes experiments with *Dictyostelium discoideum* and *Physarum polycephalum*.

- DEULOFEU, VENANCIO, LABRIOLA, RAFAEL, and DE LANGHE, J. Studies on Argentine plants. V. Identification and characterization of some alkaloids in *Fagara coco* (Gill) Engl. Amer. Chem. Soc. Jour. 64(10): 2326-2328. Oct. 1942. 381 Am33J
- DIMICK, KEENE P., and CHRISTENSEN, BERT E. A new fructosan isolated from *Yucca mohavensis*, Sarg. Amer. Chem. Soc. Jour. 64(10): 2501-2502. Oct. 1942. 381 Am33J
- LABARRE, JULES, and DELCOURT, LUCIEN. Les protides des semences de la fève gourgane (*Vicia faba*). Rev. Canad. Biol. 1(1): 72-87. Jan. 1942. Bibliography. 442.8 R325
English summary.
- LOWNDES, A. G. Rapid determination of fat in animals and plants. Nature (London) 150(3801): 291. Sept. 5, 1942. 472 N21
- McNAIR, JAMES B. Soil acidity in relation to alkaloid and cyanogenic glucoside production. Lloydia 5(3): 208-221. Sept. 1942. Literature cited. 442.8 L77
- NELSON, JOHN W., and PALMER, LEROY S. The thiamin, riboflavin, nicotinic acid, and pantothenic acid contents of wild rice (*Zizania aquatica*). Cereal Chem. 19(5): 539-540. Sept. 1942. Literature cited. 59.8 C33
- ROBINSON, ROBERT. The red and blue colouring matters of plants. Endeavour (London) 1(3): 92-100, col. pl. July 1942. 472 En2
- ROEDEL, G. F., and THORNTON, M. H. The composition and properties of ragweed seed oil. Oil & Soap 19(9): 153-156. Sept. 1942. Bibliography. 307.8 J82
- SCHROEDER, W. A. Formation of pro-carotenoids in "monkey flowers" under some conditions. Amer. Chem. Soc. Jour. 64(10): 2510-2511. Oct. 1942. 381 Am33J
Mimulus longiflorus.
- SEULKE, K. J. Some recent developments in plant hormones. Chemurg. Digest 1(17): 131-134, illus. Sept. 15, 1942. 381 N213Na
- SHUKLA, JANARDAN P. Studies in enzymes. II. Purification of amylase from kaseru (*Scirpus grossus*, Linn.) Indian Chem. Soc. Jour. 19(3): 121-124. Mar. 1942. 385 In27
- STRUCKMEYER, BURDEAN E. The mineral pattern of stems from vegetative and flowering plants as determined by micro-incineration. Science 96(2493): 246. Oct. 9, 1942. 470 Sci2
- VAN LANEN, J. M., and others. Synthesis of vitamin B₁ by yeast. Indus. and Engin. Chem. Indus. Ed. 34(10): 1244-1247. Oct. 5, 1942. Literature cited. 381 J825
H. P. Broquist, Marvin J. Johnson, Ira L. Baldwin, and William H. Peterson, joint authors.

GENETICS AND BREEDING

- ARMSTRONG, JOHN M. Production and value of polyploid field roots. Sci. Agr. 22(12): 787-798, illus. Aug. 1942. References. 7 Sci2
- CHOUDEHURI, H. C. Chromosome studies in some British species of *Limonium*. Ann. Bot. [London] (n. s.) 6(22): 183-217, illus. Apr. 1942. Literature cited. 450 An7
- DARLINGTON, CYRIL D. The substance of heredity. Endeavour (London) 1(3): 102-105, illus. July 1942. References. 472 En2

- KOSTOFF, DONTCHO. The problem of haploidy (Cytogenetic studies on *Nicotiana* haploids and their bearings to some other cytogenetic problems). *Bibliog. Genet.* 13(1): 1-148, illus. Feb. 1941. Literature. 442 B47
- RICHEY, FREDERICK D. Mock-dominance and hybrid vigor. *Science* 96(2490): 280-281. Sept. 18, 1942. 470 Sci2
- SCHAFER, BRENNHILDA. Double flowers. *Roy. Hort. Soc. Jour.* 66(11): 412-416, pl. (fig. 136) Nov. 1941. 84 L84J

PHYSIOLOGY AND MORPHOLOGY

- BHADURI, PARAM N. Further cytological investigations in the genus *Gaura*. *Ann. Bot. [London] (n.s.)* 6(22): 229-244, illus., pl. vi. Apr. 1942. References. 450 An7
- BROWN, R. The gaseous exchange of seeds and isolated cotyledons of *Cucurbita pepo*. *Ann. Bot. [London] (n.s.)* 6(22): 293-321. Apr. 1942. Literature cited. 450 An7
- CASTRO, DUARTE de. Algumas contagens de cromosomas no género *Ulex* L. (sensu lato). *Agron. Lusitana (Portugal)* 3(2): 103-110, pl. 1941. Literature cited. 105.7 Ag8
English summary.
- DELF, ELLEN M. The seedlings of balsam (*Impatiens roylei*). *Jour. Bot.* 80(951): 56, illus. Mar. 1942. 450 J82
Abnormal forms.
- FOSTER, ADRIANCE S., and SAN PEDRO, MANUEL R. Field studies on *Microcycas calocoma*. *Soc. Cubana de Hist. Nat. "Felipe Poey" Mem.* 16(2): 105-121, pl. 10-17. Aug. 1942. References. 410.9 Sol5
- FOTIDAR, A. N. Floral anatomy of *Nyctanthes arbortristis* L. *Indian Bot. Soc. Jour.* 21(3/4): 159-166, illus. May 1942. Literature cited. 450 J821
- GEITLER, LOTHAR. Das wachstum des zellkerns in tierischen und pflanzlichen gewebe. *Ergeb. der Biol.* 18: 1-54, illus. 1941. Literature cited. 442 Er3
- KAUSIK, S. B. Studies in the Proteaceae. VI. Structure and development of the seedling of *Grevillea robusta* Cunn. *Indian Bot. Soc. Jour.* 21(3/4): 145-158, illus. May 1942. Literature cited. 450 J821
- KRISHNA IYENGAR, C. V. Variation in the photosynthetic rate in *Elodea*. *Indian Bot. Soc. Jour.* 21(3/4): 167-171. May 1942. Literature cited. 450 J821
- KUMAR, L. S. S., and ABRAHAM, A. Cytological studies in Indian parasitic plants. II. The cytology of *Loranthus*. *Indian Acad. Sci. Proc. Sect. B* 15(5): 253-255, illus. May 1942. Literature cited. 513 In25B
- LOOFBOUROW, JOHN R., and others. Proliferation-promoting intercellular hormones. 3. Relation of aeration to the activity of proliferation-promoting factors from injured cells. *Biochem. Jour.* 36(5/6): 513-518. June 1942. References. 382 B52
Alfred M. Webb, Dorothea G. Loofbourow, and Rosaline K. Abramowitz, joint authors.
- LUNDEGÅRDH, HENRIK. Electrochemical relations between the root system and the soil. *Soil Sci.* 54(3): 177-189, illus. Sept. 1942. References. 56.8 So3
- MATHER, KENNETH, and NEWELL, J. Seed germination and the moon. *Roy. Hort. Soc. Jour.* 66(10): 358-368. Oct. 1941. 84 L84J
"Very doubtful, and, in many cases, small lunar effect."

- NATIVIDADE, JOAQUIM V. Nota sôbre o sistema radicular da oliveira (Note on the root system of the olive tree). Agron. Lusitana (Portugal) 3(1): 15-24, iv pl. 1941. Literature cited. 105.7 Ag8
English summary.
- NATIVIDADE, JOAQUIM V. O significado ecológico e fisiológico do sistema radicular aéreo da oliveira (*Olea europaea* L.) e da al-fallobeira (*Ceratonia siliqua* L.) Agron. Lusitana (Portugal) 3(2): 85-91, iv pl. 1941. Literature cited. 105.7 Ag8
English summary.
- OSTERHOUT, WINTHROP J. V. Increased irritability in *Nitella* due to guanidine. Jour. Gen. Physiol. 26(1): 65-73. Sept. 20, 1942. Bibliographical footnotes. 447.8 J822
- PANTULU, J. V. A contribution to the life-history of *Desmodium gangeticum* DC. Indian Bot. Soc. Jour. 21(3/4): 137-144, illus. May 1942. Literature cited. 450 J821
- SPARROW, ARNOLD H. Colchicine induced univalents in diploid *Antirrhinum majus* L. Science 96(2494): 363-364. Oct. 16, 1942. 470 Sci2
- THATHACHAR, T. Studies in Gesneriaceae, gametogenesis and embryogeny of *Didymocarpus tomentosa* Wt. Indian Bot. Soc. Jour. 21(3/4): 185-193, illus. May 1942. Literature cited. 450 J821
- THIRUMALACHAR, M. J. Morphological and cytological study of the rust on *Hedyotis stylosa*: (*Chrysocelis ascotela* (Syd.) comb. nov.) Indian Bot. Soc. Jour. 21(3/4): 173-177, illus. May 1942. Literature cited. 450 J821
- VANSELL, GEORGE H. Factors affecting the usefulness of honeybees in pollination. U. S. Dept. Agr. Cir. 650, 31 pp., illus. (incl. map). Sept. 1942. Literature cited. 1 Ag84C
Plant characteristics, pp. 10-18; pollen characteristics, pp. 18-21.
- WANNER, HANS. Strukturelle hybridität bei *Lilium umbellatum*. Vierteljahrsschr. Naturf. Gesell. Zürich 86(3/4): 299-306, illus. Dec. 31, 1941. Literature cited. 508 Z8

PATHOLOGY

(See also crop subheads for diseases of particular plants)

- BOSE, A. B. *Alternaria* on leaves of sunflower in India. Indian Bot. Soc. Jour. 21(3/4): 179-184, illus. May 1942. References. 450 J821
A. tenuis, first report from India.
- BOYD, ORAN C. Current notes on plant diseases in Massachusetts. Plant Dis. Rptr. 26(19): 411. Oct. 15, 1942. 1.9 P69P
On vegetables and apples.
- BROOKS, FREDERICK T. Disease-resistant plants. Endeavour (London) 1(3): 114-117, illus. July 1942. 472 En2
- CARPENTER, J. B. A toximetric study of some eradicant fungicides. Phytopathology 32(10): 845-856, illus. Oct. 1942. Literature cited. 464.8 P56
- CARRERA, CESAR J. M. Conservación de material fitopatológico en medios líquidos. Agronomia (Buenos Aires) 30(4): 355-359. June 1942. 9 B864

- CHESTER, KENNETH S., and LEFEBVRE, CAMILLE L. Ergot epiphytotic in southwestern pastures. Plant Dis. Rptr. 26(19): 408-410. Oct. 15, 1942. 1.9 P69P
- CHESTER, KENNETH S. The nature and prevention of plant diseases. 584 pp., illus. Philadelphia, Blakiston co. [1942] References. 464 C42
- CHRISTENSEN, JONAS J. Long distance dissemination of plant pathogens. In Aerobiology (Amer. Assoc. Adv. Sci. Pub. no. 17) pp. 78-87. Washington, D. C., 1942. References cited. 442 Am3A
- CLARK, FRANCIS E. Experiments toward the control of the take-all disease of wheat and the Phymatotrichum root rot of cotton. U. S. Dept. Agr. Tech. Bul. 835, 27 pp., illus. Oct. 1942. Literature cited. 1 Ag84Te
- DURHAM, OREN C. Air-borne fungus spores as allergens. In Aerobiology (Amer. Assoc. Adv. Sci. Pub. no. 17) pp. 32-47, illus. (maps, diagr.) Washington, D. C., 1942. References cited. 442 Am3A
- GOSS, ROBERT W., and JENSEN, JAMES H. Susceptibility of Solanum species to Fusarium solani var. eumartii. Phytopathology 32(10): 913. Oct. 1942. 464.8 P56
- KEITT, GEORGE W. Local aerial dissemination of plant pathogens. In Aerobiology (Amer. Assoc. Adv. Sci. Pub. no. 17) pp. 69-77. Washington, D. C., 1942. References cited. 442 Am3A
- KEYWORTH, W. G. Verticillium wilt and virus diseases of the hop. Ann. Appl. Biol. 29(3): 323-324. Aug. 1942. 442.8 An72
- KNIGHT, C. A. The physical and chemical properties of a distinctive strain of tobacco mosaic virus. Jour. Biol. Chem. 145(1): 11-18. Sept. 1942. Bibliography. 381 J824
- LEUKEL, ROBERT W. Spergon and thiosan as seed treatments for small grains. Plant Dis. Rptr. 26(17): 376-378. Sept. 15, 1942. 1.9 P69P
- MARTIN, HUBERT. The significance of the bio-assay in studies of fungicidal action. Ann. Appl. Biol. 29(3): 326-328. Aug. 1942. References. 442.8 An72
- MILBRATH, DAVID G. Bureau of plant pathology. [Report] Calif. Dept. Agr. Bul. 30(4): 374-384. Oct./Dec. 1941. 2 C12M
- NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BRANCH. Plant diseases. (cont.) Agr. Gaz. N. S. Wales 53(7): 331-334, 347, illus. July 1, 1942. 23 N472
- Downy mildew of onions. Onion smut. Control of damping-off. Topical items in brief. New plant diseases.
- NEW YORK (STATE) AGRICULTURAL EXPERIMENT STATION. Division of plant pathology. N. Y. State Agr. Expt. Sta. Ann. Rpt. (1941/42) 61: 52-60. Geneva [1942] 100 N48
- OHIO. AGRICULTURAL EXPERIMENT STATION. Plants and plant diseases. Ohio. Agr. Expt. Sta. Ann. Rpt. (1938/39) 53(Bul. 617): 16-24, illus. Wooster, Dec. 1940. 100 Oh3S

- PARKIN, E. A. Symbiosis and siricid woodwasps. *Ann. Appl. Biol.* 29(3): 268-274, illus. Aug. 1942. References. 442.8 An72
Stereum sanguinolentum found in *Sirex gigas* and *S. cyaneus*.
- PERSON, LEE H., and CHILTON, ST. JOHN P. Seed and soil treatment for the control of damping-off. *La. Agr. Expt. Sta. Bul.* 349, 16 pp. University Station, Baton Rouge, June 1942. Literature cited. 100 L93
- PROCTOR, BERNARD E., and PARKER, BASIL W. Microorganisms in the upper air. *In Aerobiology* (Amer. Assoc. Adv. Sci. Pub. no. 17) pp. 48-54. Washington, D. C., 1942. References cited. 442 Am3A
- RHODE ISLAND. AGRICULTURAL EXPERIMENT STATION. Plant pathology. *R. I. Agr. Expt. Sta. Ann. Rpt.* 54(Contr. 614): 41-47. Kingston, June 1942. 100 R34S
- ROLET, ANTONIO. Forma en que obra el azufre sobre el Oidium. *Vinos, Viñas y Frutas* (Buenos Aires) 38(443): 28-29. July 1942. 9 Ag89
- SOARES BRANDÃO, JOSÉ, FILHO. Os nematóides e os meios usuais para o seu controle. [Brazil] *Min. da Agr. Bol.* 30(7): 9-15. July 1941. 9.2 Ag83
- SOARES BRANDÃO, JOSÉ, FILHO. O sublimado corrosivo no tratamento das sementes hortícolas. [Brazil] *Min. da Agr. Bol.* 30(5): 29-31. May 1941. 9.2 Ag83
- STAKMAN, ELVIN C. The field of extramural aerobiology. *In Aerobiology* (Amer. Assoc. Adv. Sci. Pub. no. 17) pp. 1-7. Washington, D.C., 1942. 442 Am3A
- THIND, KARTAR S. The genus *Peronospora* in the Punjab. *Indian Bot. Soc. Jour.* 21(3/4): 197-215, illus., col. pl. viii. May 1942. References. 450 J821
- WARE, W. M. Hop downy mildew. *Ann. Appl. Biol.* 29(3): 322-323. Aug. 1942. 442.8 An72
- WODEHOUSE, ROGER P. Atmospheric pollen. *In Aerobiology* (Amer. Assoc. Adv. Sci. Pub. no. 17) pp. 8-38, x pl. Washington, D. C., 1942. 442 Am3A

WEEDS AND POISONOUS PLANTS

- DREYER, J. A. Control of dodder on grazing. The use of the blow-lamp. *Farming in So. Africa* 17(198): 575-578, illus. Sept. 1942. 24 So842
- FROMM, FRITZ. The eradication of nut grass. *Science* 96(2493): 337-338. Oct. 9, 1942. 470 Sci2
- GARDNER, CHARLES A. Gascoyne stock route poison plants. *West. Austral. Dept. Agr. Jour.* (ser. II) 19(2): 84-95, illus. (incl. maps). June 1942. 23 W52J
Euphorbia boöphthona mainly responsible.
- INGLIS, C. C., and GOKHALE, V. K. Water weeds and their eradication from canals. *India Cent. Bd. Irrig. Pub.*, no. 26, 20 pp., map, iii pl., tables (part fold.) Simla, Nov. 15, 1941. References. 55.9 In222
 With note on eradication of bulrush, by V. K. Gokhale and S. N. Puneekar.
- PARHAM, B. E. V. Weeds in Fiji. IV. *Fiji Dept. Agr. Agr. Jour.* 13(2): 53-54. June 1942. 25 F47Ag
- SAUNDERS, ABRAHAM R. Weed control and distance of planting in maize production. *Farming in So. Africa* 17(198): 547-548. Sept. 1942. 24 So842

THE WEED problem in Alberta. Alberta Dept. Agr. Agr. Ext. Serv. Bul. 59, 48 pp., illus. Edmonton, Alberta, July 1942. Literature cited. 275.29 A1122

Contents: Development of the weed problem, by R. E. English; The work and problems of weed inspectors, by E. M. Crisfield; Cultural practices in relation to crop production, by A. E. Palmer; Weed control in the park belt and grey wooded soil area in Alberta, by G. E. De Long; Forage crops in relation to weed control, by J. R. Fryer; Weed control experiments conducted by the Dominion Expt. Sta., Lethbridge, by J. J. Sexsmith; The germination of weed seeds... by N. G. Lewis.

CROP PLANTS (Includes Diseases)

GENERAL

VIRGINIA. AGRICULTURAL AND MECHANICAL COLLEGE. EXTENSION AGRONOMY DEPT.
A handbook of agronomy. Va. Agr. Col. Ext. Bul. 97, 70 pp.
Blacksburg, rev. June 1942. 275.29 V81B

CEREALS

- GEDDES, WILLIAM E., and LEVINE, MOSES N. The distribution of thiamin in the wheat plant at successive stages of kernel development. Cereal Chem. 19(5): 547-552. Sept. 1942. 59.8 C33
- GLYNNE, MARY D. *Gercospora herpotrichoides* Fron., causing eyespot of wheat in Great Britain. Ann. Appl. Biol. 29(3): 254-264, pl. 7. Aug. 1942. References. 442.8 An72
- HARRIS, R. H. The effect of unfavorable weather at harvest upon the quality of North Dakota wheat. N. Dak. Agr. Expt. Sta. Bimo. Bul. 5(1): 23-28, illus. Sept. 1942. Literature cited. 100 N813B
- HENRY, G. F., DOWN, E. E., and BATES, W. D. An adequate sample of corn plots with reference to moisture and shelling percentages. Amer. Soc. Agron. Jour. 34(9): 777-781. Sept. 1942. 4 Am34P
- HOUSE, ALBERT V., JR. Charles Maningault's Essay on the open planting of rice. Agr. Hist. 16(4): 184-193. Oct. 1942. 30.98 Ag8
- IMMER, FOREST R. Distribution of yields of single plants of varieties and F_2 crosses of barley. Amer. Soc. Agron. Jour. 34(9): 844-850. Sept. 1942. Literature cited. 4 Am34P
- JOHNSON, THORVALDUR, and HAGBORG, W. A. F. Brown necrosis and Alternaria blotch of wheat. Sci. Agr. 22(12): 746-760, illus. Aug. 1942. References. 7 Sci2
- Puccinia graminis tritici* and *A. tenuis* causes melanistic discolorations on wheat crosses with Hope and H-44; stem rust induces on the outer glumes a discoloration, "brown necrosis."
- KOSTOFF, DONTCHO. Wheat phylesis and wheat breeding from a cytogenetic point of view (Cytogenetic indices for the rôle of interspecific hybridization in the origin of wheat species and for applying interspecific hybridization in producing valuable wheat forms). Bibliog. Genet. 13(2): 149-224, illus. Feb. 1941. References. 442 B47

- MARCHIONATTO, JUAN B. Nota experimental sobre el quemado del arroz (*Piricularia oryzae* Br. et Cav.) *Agronomia* (Buenos Aires) 30(4): 351-354, ii pl. (1 col.) June 1942. Bibliographical footnotes. 9 B864
- MARINO, ANTONIO E., and LUNA, JOSÉ T. Ensayos de variedades comerciales de maíces y épocas de siembra. *Rev. Argentina de Agron.* 9(2): 96-109, illus. June 1942. References. 9 R327
- MEAD, H. W., RUSSELL, RALPH C., and LEDINGHAM, R. J. The examination of cereal seeds for disease and studies on embryo exposure in wheat. *Sci. Agr.* 23(1): 27-40, illus. Sept. 1942. References. 7 Sci2
- MEAD, H. W. Host-parasite relationships in a seed-borne disease of barley caused by *Helminthosporium sativum* Pammel, King, and Baake. *Canad. Jour. Res. Sect. C, Bot. Sci.* 20(10): 501-523, illus., iii pl. Oct. 1942. References. 470 C16C
- MEREDITH, W. O. S., SALLANS, H. R., and ROWLAND, H. Prediction of malt diastatic power of hybrid barleys. *Sci. Agr.* 22(12): 761-771, illus. Aug. 1942. References. 7 Sci2
- MILES, LEE E., and EPPS, JAMES M. The downy mildew disease of oats, caused by *Sclerospora macrospora*. *Phytopathology* 32(10): 867-878, illus. Oct. 1942. Literature cited. 464.8 P56
- RYKER, TRUMAN C., and CHILTON, ST. JOHN P. Inheritance and linkage of factors for resistance to two physiologic races of *Cercospora oryzae* in rice. *Amer. Soc. Agron. Jour.* 34(9): 836-840, illus. Sept. 1942. Literature cited. 4 Am34P
- SALLANS, BRYCE J. The importance of various roots to the wheat plant. *Sci. Agr.* 23(1): 17-26. Sept. 1942. References. 7 Sci2
- SEMENIUK, WILLIAM, and ROSS, J. G. Relation of loose smut to yield of barley. *Canad. Jour. Res. Sect. C, Bot. Sci.* 20(10): 491-500. Oct. 1942. References. 470 C16C
- SHARMAN, B. C. Developmental anatomy of the shoot of *Zea mays* L. *Ann. Bot.* [London, (n.s.) 6(22): 245-282, illus., pl. vii. Apr. 1942. Literature cited. 450 An7
- SOARES BRANDÃO, JOSÉ, FILHO. Os "carvões" do milho. [Brazil, Min. da Agr. Bol. 30(10): 31-33. Oct. 1941. 9.2 Ag83
Ustilago zeae, Sorosporium reilianum.
- STANSEL, R. H. Humidity holds no terror for this kafir. Schrock kafir or sagrain...outyields corn in humid Gulf Coast region. *South. Seedsman* 5(10): 12, 36, illus. Oct. 1942. 61.8 So8
- TATUM, LOYD A. The effect of genetic constitution and processing methods on the ability of maize seed to germinate in cold soil. *Iowa State Col. Jour. Sci.* 17(1): 138-140. Oct. 1942. 470 Io9
- WALSTER, H. L., and STOA, T. E. Continuous wheat culture versus rotation wheat culture. *N. Dak. Agr. Expt. Sta. Bimo. Bul.* 5(1): 2-8, illus. Fargo, Sept. 1942. 100 N813B
- WARREN, C. HENRY. Corn country. 136 pp., 51 pl. (partly col.) London, B. T. Batsford Ltd. [1940] Bibliography. 59 W25
- WIIDAKAS, WILLIAM, and LEARY, WILLIAM J. 1940 hybrid corn field trials. *N. Dak. Agr. Expt. Sta. Agron. Mineo. Cir.* 72, 25 pp., processed. Fargo, Jan. 1941. 100 N813A
- WILD, A. S., and TEAKLE, L. J. H. Experiments with micro-elements for the growth of crops in Western Australia. V. Experiments at Kulin (Jilakin) and Bullaring in the southern wheat belt, 1941. *West. Austral. Dept. Agr. Jour.* 19(2): 71-78. June 1942. 23 W52J

COTTON AND OTHER FIBER PLANTS

- BEREND, A. H. Flax growing in South Africa. Successful results with *Phormium tenax* on Natal Coast. *Farmers Weekly* [Bloemfontein] 63: 1400, illus. Sept. 9, 1942. 24 F225
- DI FONZO, MARIO A. La humedad de la semilla del algodónero relacionada con su poder germinativo y con la presencia del *Aspergillus wentii*. Argentina Min. de Agr. Junta Nac. Algodon Bol. Mens. no. 85/86, pp. 156-168, illus. May/June 1942. Literature cited. 72.9 Ar3
- LOPES da CRUZ, ADMAR. A guaxima, *Urena lobata*, sua cultura, valor econômico, aplicações industriais. [Brazil] Min. da Agr. Bol. 30(8): 29-35, pl. Aug. 1941. 9.2 Ag83
- MARQUETTE, M. Review on the structure of cellulose fibers. *Rayon Textile Monthly* 23(9): 518-519. Sept. 1942. Literature cited. 304.8 R21
- MUSKETT, ARTHUR E., and COLHOUN, JOHN. Biogocial technique for the evaluation of fungicides. II. The evaluation of seed disinfectants for the control of seed-borne diseases of flax. *Ann. Bot.* [London] (n.s.) 6(22): 219-227. Apr. 1942. References. 450 An7
- O'KELLY, J. FRED. Degeneration within cotton varieties. *Amer. Soc. Agron. Jour.* 34(9): 782-796. Sept. 1942. Literature cited. 4 Am34P
- ROGERS, COLONEL H. Cotton root rot studies with special reference to *Sclerotinia*, cover crops, rotations, tillage, seeding rates, soil fungicides, and effects on seed quality. *Tex. Agr. Expt. Sta. Bul.* 614, 45 pp., illus. College Station, June 1942. Literature cited. 100 T31S
- SEBNA BRAGA, OKIRO de., and WOLLNER, WITTUS C. Contribuição ao conhecimento dos textéis nacionais (Contribution to the study of Brazilian plant fibres). [Rio de Janeiro] Inst. Expt. Agr. Bol. no. 2, 94 pp. 1941. Literature cited. 102.5 R474
English and German summaries.

DRUG PLANTS

- AZEVEDO BOTELHO, EPAMINONDAS. A cultura de plantas medicinais como fonte de riqueza. [Brazil] Min. da Agr. Bol. 30(7): 17-74, illus. July 1941. Bibliography. 9.2 Ag83
- GATHERCOAL, EDMUND N. Drug plant cultivation. *Drug and Cosmetic Indus.* 51(3): 264-272, 319, illus. Sept. 1942. 396.8 D842
- MELVILLE, RONALD. Vegetable drugs of Britain and their exploitation in the war. *Endeavour* (London) 1(2): 84-85, illus. Apr. 1942. 472 En2
- PORTERFIELD, WILLARD M., JR. China's contribution in medicinal herbs. *N. Y. Bot. Gard. Jour.* 43(513): 223-230, illus. Sept. 1942. 451 M48J
- YOUNGKEN, HEBER W., and FISCHER, EARL B. Growth effects of pyridine, piperidine, atropine sulfate and thiamin chloride on *Stramonium* seedlings. *Amer. Pharm. Assoc. Jour.* 31(9): 257-263, illus. Sept. 1942. References. 396.9 Am33J

FRUITS AND NUTS

- ANDERSON, HARRY W. Calyx and injury to apples. Ill. State Hort. Soc. News Letter 7: [1]. Oct. 1942. 81 I16N
Caused by lead arsenate.
- BARNETT, R. J. The Atchison experiment orchard. Kans. Agr. Expt. Sta. Bul. 301, 31 pp., illus. Manhattan, May 1942. 100 K13S
- CARPENTER, J. B. Moldy core of apples in Wisconsin. Phytopathology 32(10): 896-900. Oct. 1942. Literature cited. 464.8 P56
A species of *Alternaria* on the *A. tenuis* group was the predominant fungus.
- CASSELLA, DOMENICO. La propagacion de la *Vitis berlandieri* por estaca. Vinos, Viñas y Frutas (Buenos Aires) 38(443): 51-56. July 1942. 9 Ag89
- CHAPMAN, H. D., PARKER, E. R., and RAYNER, D. S. Seasonal absorption of nitrogen by citrus. Calif. Citrog. 27(12): 330, 348-349, illus. Oct. 1942. Literature cited. 80 C125
- CHRISTIE, JESSE R. A description of *Aphelenchoides besseyi*, n. sp., the summer dwarf nematode of strawberries, with comments on the identity of *Aphelenchoides subtenuis* (Cobb, 1926) and *Aphelenchoides hudsoni* Goodey, 1935. Helminth. Soc. Wash. Proc. 9(2): 82-84. July 1942. Literature cited. 436.9 H36
- COOLEY, JACQUELIN S. Factors affecting distribution and severity of black root rot of apple trees. Jour. Agr. Res. 65(6): 299-311. Sept. 15, 1942. Literature cited. 1 Ag84J
Xylaria mali.
- CRANE, MORLEY B. The production of fruit. Roy. Hort. Soc. Jour. 66(10): 350-357, 2 pl. (fig. 115-117). Oct. 1941. 84 L84J
Classification in reference to compatibility in cherries, plums, apples and pears.
- DORAN, WILLIAM L., and BAILEY, JOHN S. Propagating beach plums by cuttings. Amer. Nurseryman 76(6): 7. Sept. 15, 1942. 80 Am371
- MOSCRIP, JOHN. Soil can do double duty. Acreage cleared and planted to young trees is used profitably for secondary crops. Citrus Mag. 5(4): 6-7, illus. Oct. 1942.
- NATIVIDADE, JOAQUIM V. Nota sobre os prejuízos causados pelo ciclone de 15 de fevereiro de 1941 nos amendoeirais do Algarve (A note on damage caused to almond trees of Algarve by the February 15th hurricane). Agron. Lusitana (Portugal) 3(1): 5-13, iv pl. 1941. Literature cited. 105.7 Ag8
English summary.
- NOTES on *Prunus amygdalus pollardii*. Roy. Hort. Soc. Jour. 66(12): 450. Dec. 1941. 84 L84J
Refers to a previous note (l.c. 66: 382) about its origin and adds information concerning its history.
- PALMITER, DeFOREST H., and HILDEBRAND, EARL M. Kill chokecherries to save peaches from X disease. N. Y. State Agr. Expt. Sta. Farm Res. 8(4): 2, 11, illus. Oct. 1, 1942. 100 N48A
- PYKE, MAGNUS, MELVILLE, RONALD, and SARSON, HENRY. Vitamin C in walnuts. Nature (London) 150(3800): 267-268. Aug. 29, 1942. 472 N21
English walnut.
- SLATE, GEORGE L. "Milton" - a new red raspberry. N. Y. State Agr. Expt. Sta. Farm Res. 8(4): 7. Oct. 1, 1942. 100 N48A
Late variety, quite hardy, resistant to mosaic; cross between Lloyd George and Newburgh.

- SOARES BRNADÃO, JOSÉ, FILHO. Doença dos citrus, medidas indicadas contra a podridão do pé. [Brazil] Min. da Agr. Bol. 30(8): 25-28. Aug. 1941. 9.2 Ag83
Phytophthora spp.
- SUIT, ROSS F. Currant leaf spot held in check with bordeaux spray. N. Y. State Agr. Expt. Sta. Farm Res. 8(4): 5, illus. Oct. 1, 1942. 100 N48A
- TUKEY, HAROLD B. Forecasting the time of fruit harvest by blooming dates. N. Y. State Agr. Expt. Sta. Farm Res. 8(4): 3, 11. Oct. 1, 1942. 100 N48A
- WELSH, MAURICE F. Studies of crown rot of apple trees. Canad. Jour. Res. Sect. C, Bot. Sci. 20(9): 457-490, iii pl. Sept. 1942. References. 470 C16C
- WILCOX, ARTHUR N. New grapes for Minnesota. Minn. Hort. 70(8): 135-136, illus. Oct. 1942. 81 M66

GRASSES AND FORAGE PLANTS

- ANDERSON, KLING L. A comparison of line transects and permanent quadrats in evaluating composition and density of pasture vegetation of the tall prairie grass type. Amer. Soc. Agron. Jour. 34(9): 805-822. Sept. 1942. Bibliographical footnotes. 4 Am34P
Native tall grass pastures near Manhattan, Kansas.
- BARRON, J. H., and SERVISS, G. H. Emergency hay and pasture. N. Y. Agr. Col. (Cornell) Ext. Bul. 517, 18 pp., illus. Ithaca, June 1942. 275.29 N48E
- BRACKEN, L. O. The Southeast can grow clover and alfalfa. Better Crops with Plant Food 26(7): 14-16, 39, illus. Aug./Sept. 1942. 6 B46
- CORMACK, MELVILLE W. Varietal resistance of alfalfa and sweet clover to root- and crown-rotting fungi in Alberta. Sci. Agr. 22(12): 775-786. Aug. 1942. References. 7 Sci2
- ELLIOTT, H. G., and RYAN, F. E. Pasture development. West. Austral. Dept. Agr. Jour. 19(2): 116-143, illus. June 1942. 23 W52J
- FRANZKE, CLIFFORD J., and HUME, ALBERT N. Regrassing areas in South Dakota. S. Dak. Agr. Expt. Sta. Bul. 361, 48 pp., illus. Brookings, June 1942. 100 So82
- GLENDENING, GEORGE E. Germination and emergence of some native grasses in relation to litter cover and soil moisture. Amer. Soc. Agron. Jour. 34(9): 797-804. Sept. 1942. Literature cited. 4 Am34P
- HUTCHISON, J. D. Ladino field day. Better Crops with Plant Food 26(7): 17-18, 40-41, illus. Aug./Sept. 1942. 6 B46
- KEILHOLZ, F. J. The saga of the soybean. Nation's Agr. 17(9): 4, 10-11. Oct. 1942. 280.82 B89
- KEMMERER, ARTHUR R., FUDGE, JOSEPH F., and FRAPS, GEORGE S. Carotene content of Texas range forages. Amer. Soc. Agron. Jour. 34(9): 851-855. Sept. 1942. Literature cited. 4 Am34P
- KERLE, W. D. Fodder millet. An ideal crop for quick spring and summer grazing. Agr. Gaz. N. S. Wales 53(7): 301-305, illus. July 1, 1942. 23 N472
- MAYS, D. W., JR. Changes in the proportion and yield of alfalfa and Korean lespedeza in mixtures with grasses. Amer. Soc. Agron. Jour. 34(9): 856-859. Sept. 1942. 4 Am34P

- MEGEE, C. R., FRANKS, M. G., and LARSEN, I. T. The influence of clipping treatment and rolling on the yield of clover seed. Amer. Soc. Agron. Jour. 34(9): 841-843. Sept. 1942. 4 Am34F
- MERRILL, T. A. Domestic rye grass - a new cover for vineyards. N. Y. State Agr. Expt. Sta. Farm Res. 8(4): 9, illus. Oct. 1942. 100 N48A
- NOWOSAD, F. S., WOODWARD, J. C., and WRIGHT, L. E. The effect of fertilizer treatments on the yield and chemical composition of pasture species. Sci. Agr. 22(12): 733-745. Aug. 1942. 7 Sci2
- PRINCE, FORD S., BLOOD, PAUL T., and PERCIVAL, GORDON P. Fertility needs of dairy farm crops in the Connecticut Valley. N. H. Agr. Expt. Sta. Cir. 62, 12 pp. Durham, Apr. 1942. 100 N45C
- PRINCE, FORD S., and others. Fertilizer needs of alfalfa on New Hampshire soils. N. H. Agr. Expt. Sta. Cir. 58, 12 pp. Durham, Apr. 1942. 100 N45C
- Paul T. Blood, Gordon P. Percival, and Paul N. Scripture, joint authors.
- REID, MARY E. Variations in ascorbic acid and dry matter content of cowpea plants at different times of day. Torrey Bot. Club. Bul. 69(7): 522-527. Oct. 1942. Literature cited. 451 T63B
- SCHIEL, ENRIQUE, and RAGONESE, ARTURO E. Infección de la alfalfa con *Rhizobium meliloti* en la provincia de Santa Fe. Rev. Argentina de Agron. 9(2): 114-169, illus. June 1942. Literature cited. 9 R327
- English summary.
- STEPHENS, J. L. Pastures for the Coastal Plain of Georgia. Ga. Coastal Plain Expt. Sta. Bul. 27, 57 pp., illus. Tifton, June 1942. 100 G292
- VOSHCHININ, P. A., and RABOTNOV, T. A. Pervaya Vsesoiuznaya konferentsiya po gornym senokosam i pastbishcham (First All-Union conference on mountain meadows and pasture lands). Vest. Sel'skokhoziaistv. Nauk. Kormodobyvanie 1940(2): 86-92. 1940. 60.8 V63
- English translation by I. Zacopanay in Imp. Bur. Pastures and Forage Crops, Herbage Abs. 12(4): S45-S52. Aug. 1942. 241 Im733
- WASSON, R. A. Results of cooperative basic slag demonstrations with winter legumes, summer legumes and pastures for 1939-1940. La. Agr. Col. Ext. Cir. 206, 11 pp. University Station, Baton Rouge, Feb. 1941. 275.29 L93C

OIL PLANTS

- ALMEIDA FRANCISCO, JOSÉ de. A diagnose de deficiências nutritivas na oliveira pela injeção de soluções salinas. Agron. Lusitana (Portugal) 3(1): 59-70, pl. 1941. Literature cited. 105.7 Ag8
- English summary.
- BRIGGS, LINDSAY H., and SUTHERLAND, MAURICE D. The essential oil of *Cupressus macrocarpa*. Jour. Organic Chem. 7(5): 397-407. Sept. 1942. References. 381 J827
- CABRAL, RAÚL V. de G. Notas sobre o *Gloeosporium olivarum* Alm. Agron. Lusitana (Portugal) 3(1): 49-58, ii pl. 1941. Literature cited. 105.7 Ag8
- English summary.

- GROUNDNUT trials in the sugar belt. The beginning of success. So.
African Sugar Jour. 26(8): 381, 383, 385. Aug. 1942. 65.8 So8
- GUENTHER, ERNEST. Australian eucalyptus oils. (cont.) Drug and
Cosmetic Indus. 51(3): 281-285. Sept. 1942. 396.8 D842
- SOARES BRANDAO, JOSE, FILHO. Doenças e pragas do amendoim. [Brazil]
Min. da Agr. Bol. 30(3): 57-61. Mar. 1941. 9.2 Ag83
- STOA, THEODORE E. Varieties of flax that resist rust. N. Dak.
Agr. Expt. Sta. Bimo. Bul. 5(1): 29-31. Fargo, Sept. 1942.
100 N813B

ORNAMENTALS

- AHRENDT, LESLIE W. A. An analysis of the Wisley hybrid Berberis.
Roy. Hort. Soc. Jour. 67(4): 129-135, 3 pl. (fig. 43-45). Apr. 1942.
84 L84J
- ANCYLOSTEMON. Roy. Hort. Soc. Jour. 66(8): 295-296, pl. (fig. 100).
Aug. 1941. 84 L84J
A. concavus and A. convexus.
- THE CAMELLIAS. Gard. Illus. 63(3282): 788-789, illus. Sept. 1942.
80 G169
- CHITWOOD, BENJAMIN G., and BLANTON, FRANKLIN S. The efficacy of
vapor-heat treatments of narcissus bulbs, variety Triumph, for
control of the bulb or stem nematode, Ditylenchus dipsaci (Kühn)
Filipjev, and the tolerance to this treatment of narcissus bulbs,
variety King Alfred. Helminth. Soc. Wash. Proc. 9(2): 78-82.
July 1942. 436.9 H36
- CHRISTIE, JESSE R. The influence of chrysanthemum propagating methods
on dissemination of the foliar nematode. Helminth. Soc. Wash.
Proc. 9(2): 84-87. July 1942. 436.9 H36
- COOLEY, JACQUELIN S. Defoliation of American holly cuttings by
Rhizoctonia. Phytopathology 32(10): 905-909, illus. Oct. 1942.
Bibliographical footnotes. 464.8 P56
- DOSDALL, LOUISE. How to keep diseases out of the peonies. Minn.
Hort. 70(8): 141-142. Oct. 1942. 81 M66
- FERGUSON, WILLIAM. Do your plants show signs of hunger? Canad.
Florist 37(20): 327-329, illus. Oct. 6, 1942. 80 C163
Stocks, sweet peas and calendula.
- HASCOMBE, C. T. Gentians at Hascombe. Roy. Hort. Soc. Jour. 66(5,6):
148-152, 199-206, 3 pl. (fig. 53-56, 67-68). May, June 1941.
84 L84J
- HURST, CHARLES C. Notes on the origin and evolution of our garden
roses. II. Modern garden roses (1800-1940). Roy. Hort. Soc. Jour.
66(7, 8): 242-250, 282-289. July, Aug. 1941. 84 L84J
- INGRAM, COLLINGWOOD. A note on the Embotriums. Roy. Hort. Soc. Jour.
67(3): 83-85, illus. Mar. 1942. 84 L84J
- LAWRENCE, ELIZABETH L. A southern garden, a handbook for the middle
south. 241 pp., incl. tables. Chapel Hill, The University of
North Carolina press, 1942. 96 L43
- LILIUM x 'Stephen Harmeling.' Roy. Hort. Soc. Jour. 66(6): 206, pl.
(fig. 69). June 1941. 84 L84J
- A NEW Narcissus cyclamineus hybrid. Roy. Hort. Soc. Jour. 67(4): 120,
pl. (fig. 40). Apr. 1942. 84 L84J
Variety named Kitty, hybrid of Leedsii 'Mitylene' with pollen from
N. cyclamineus.

- OLIVEIRA, BRANQUINHO d', and BORGES, MARIA de L. V. BORGES. Infecções perenais da *Tranzschelia prunispinosae* Pers. na *Anemone coronaria*. Agron. Lusitana (Portugal) 3(1): 71-77. 1941. Literature cited. 105.7 Ag8
- PATTERSON, HAROLD. Cattelya pollen and seed. The story behind pollination and germination. Amer. Orchid Soc. Bul. 11(5): 147-145. Oct. 1, 1942. 80 Am329
- RUSSELL, THOMAS A. The Bermuda Easter lily. Roy. Hort. Soc. Jour. 67(2): 53-55, 2 pl. (fig. 14-15). Feb. 1942. 84 L84J
- SAUNDERS, ARTHUR P. Peony culture in America. Gard. Chron. Amer. 46(10): 275-276, 284, illus. Oct. 1942. 80 G1632
- STOKER, FRED. Brooms for the rock garden. Roy. Hort. Soc. Jour. 67(3): 76-80, 4 pl. (fig. 26-31). Mar. 1942. 84 L84J
- STOKER, FRED. In praise of heather. Roy. Hort. Soc. Jour. 66(6): 191-198, 2 pl. (fig. 64-66). June 1941. 84 L84J
Species for a heath garden.
- WILDON, CARRICK E. Michigan State - a new hybrid *Kalanchoe*. Mich. Agr. Expt. Sta. Quart. Bul. 25(1): 29-32, col. pl. Aug. 1942. Literature cited. 100 M58S
K. blossfeldiana x *K. kirkii*.
- WILKIE, DAVID. *Primula obtusifolia* Royle. Roy. Hort. Soc. Jour. 66(9): 324-325, pl. (fig. 104). Sept. 1942. 84 L84J
- YARNELL, SIDNEY H. Adaptability studies with bearded iris in Texas. Tex. Agr. Expt. Sta. Bul. 615, 33 pp., illus. College Station, Aug. 1942. References. 100 T31S

POTATO

- CALDWELL, JOHN. The production of virus-free potatoes in the south-west of England. Ann. Appl. Biol. 29(3): 265-267. Aug. 1942. 442.8 An72
- CARSON, GEORGE P., and HOWARD, HAROLD W. Self-incompatibility in certain diploid potato species. Nature (London) 150(3801): 290. Sept. 5, 1942. 472 N21
- CHITWOOD, BENJAMIN G., and others. *Heterodera rostochiensis*, the golden nematode of potatoes, in New York state. Plant Dis. Rptr. 26(16): 390-391. Oct. 1, 1942. 1.9 P69P
R. L. Clement, R. Morgan and R. Tank, joint authors.
- DESLANDES, JOSUE A. Sanidade dos batatais e trabalhos aplicados ao seu melhoramento. (Viagem aos estados de São Paulo, Minas Gerais, Paraná e Santa Catarina). [Brazil] Min. da Agr. Bol. 30(9): 1-39, illus. Sept. 1941. 9.2 Ag83
- DYKSTRA, THEODORE P. Compilation of results in control of potato ring rot in 1941. Amer. Potato Jour. 19(9): 175-196. Sept. 1942. 75.8 M58S
- FOLSOM, DONALD. Sample size and reliability. Amer. Potato Jour. 19(9): 197-199. Sept. 1942. Literature cited. 75.8 P842
- GROSS, A. E. Flotation method of improving potato seed quality. Oreg. Agr. Expt. Sta. Cir. Inform. 272, 3 pp., processed. Corvallis, May 1942. 100 Oh3C
- HOUGHLAND, G. V. C., and others. Nutrient value of some new phosphatic materials used on potatoes. Amer. Fert. 97(7): 5-8, 24, 26. Sept. 26, 1942. Literature cited. 57.8 Am3
K. G. Clark, Arthur Hawkins, and John C. Campbell, joint authors.

- OWENS, CHARLES E. Late blight of potatoes. Oreg. Agr. Expt. Sta. Cir. Inform. 279, 5 pp., 2 pl. Corvallis, June 1942. 100 Or30
Control, pp. 3-5.
- SANFORD, GUTHRIE B. Apical leaf speck of potatoes. Sci. Agr. 22(12): 772-774, illus. Aug. 1942. References. 7 Sci2
"Apical leaf speck" suggested as name for malady caused by soils factors that favor faulty nutrition of plant.

RUBBER PLANTS

- FORD, CHARLES E. Wind damage in immature rubber. Rubber Res. Scheme, Ceylon. Quart. Cir. 18(4): 108-120. Dec. 1941. 78.9 C33Q
- MARIN, LUIS. Apuntes sobre el cultivo del arbol del hule conocido con el nombre de Castilloa. Agr. Mex. 58(8): 1-9. Aug. 1942. 8 Ag8
- SMITH, G. E. P. The production of guayule rubber under irrigation. Agr. Engin. 23(10): 312, 324, illus. Oct. 1942. 58.8 Ag83
- WHELAN, L. A., and SILVA, C. A. de. Field experiments on Dartonfield estate - XVI. Measurements of growth in replanted areas (1940). Rubber Res. Scheme, Ceylon. Quart. Cir. 18(4): 121-127, illus. Dec. 1941. 78.9 C33Q

SUGAR PLANTS

- BRANDES, E. W., and COONS, G. H. Where sugar beets grow. Through the Leaves 30(5): 34-36, illus. Sept./Oct. 1942. 66.8 T41
- GOUAUX, C. B. Average of sugar cane varieties from test field results. Sugar Bul. 21(2): 13-14. Oct. 15, 1942. 65.9 Am32
- LAURITZEN, JOHN I. Testing varieties of sugarcane for resistance to inversion of sucrose and for windrowing qualities in Louisiana. Sugar Bul. 20(24): 210-215. Sept. 15, 1942. Literature cited. 65.9 Am32
- MAURITIUS. DEPT. OF AGRICULTURE. SUGARCANE RESEARCH STATION. Twelfth annual report, 1941. I-III. 31 pp. Port Louis, 1942. 65.9 M44
I. Geneticist's division. II. Chemistry. III. Research botany.
- PRICE, CHARLES, and HUBERTY, M. R. Irrigation of sugar beets grown for seed. Sugar Jour. 5(4): 13-17. Sept. 1942. 65.8 Su391

TOBACCO

- BARBOSA, CARLOS, and FISCHER, G. J. Ensaio de adubação de fumo na Baia (Fertilizer experiments with tobacco in Bahia). Rio de Janeiro, Inst. Expt. Agr. Bol. no. 1, 52 pp., illus. 1941. References. 102.5 R474
English summary.
- GEORGIA. COASTAL PLAIN EXPERIMENT STATION. Flue-cured tobacco diseases. Ga. Coastal Plain Expt. Sta. Ann. Rpt. (1940/41) 21 (Bul. 32): 122-128. Tifton, July 1941. 100 G292
- GRAHAM, THOMAS W. The meadow nematode on tobacco in South Carolina. Plant Dis. Rptr. 26(19): 410. Oct. 15, 1942. 1.9 P69F
Pratylenchus pratensis.
- HILLS, CLAUDE H., and MCKINNEY, HAROLD H. The effect of mosaic virus infection on the protein content of susceptible and resistant strains of tobacco. Phytopathology 32(10): 857-866. Oct. 1942. Literature cited. 464.8 P56

TREES AND WOODY PLANTS

- BALDWIN, HENRY I. Forest tree seed of the north temperate regions with special reference to North America. 240 pp., illus. Waltham, Mass., Chronica Botanica co., 1942. 61 B192
- BALEFOUR, FREDERICK R. S. Low temperatures in January 1941 in S. E. Scotland and their effect on shrubs and trees. Roy. Hort. Soc. Jour. 66(7): 230-236. July 1941. 84 L84J
- CARTWRIGHT, KENNETH ST. G., and FINDLAY, WALTER P. K. Principal decays of British hardwoods. Ann. Appl. Biol. 29(3): 219-253, pl. 2-6. Aug. 1942. References. 442.8 An72
- CHIDESTER, MAE S. The effect of a mold, *Trichoderma lignorum*, on loblolly pine sapwood. Amer. Wood Preservers' Assoc. Proc. 38: 134-139, illus. 1942. Bibliographical footnotes. 300.9 Am3
- CRANDALL, BOWEN S. Thyronectria disease of honey locust in the South. Plant Dis. Rptr. 26(17): 376. Sept. 15, 1942. 1.9 P69P
- EDGEWORTHIA papyrifera. Roy. Hort. Soc. Jour. 67(5): 168-169, 2 pl. (fig. 57-58). May 1942. 84 L84J
- EHRLICH, JOHN. Recently active leaf diseases of woody plants in Idaho. Plant Dis. Rptr. 26(18): 391-393. Oct. 1, 1942. 1.9 P69P
- ENGSTROM, HAROLD E., and MATTHEW, LEWIS S. Effects of the 1940 Armistice day freeze on Siberian elm in the Plains country. Jour. Forestry 40(9): 704-707. Sept. 1942. 99.8 F768
- FREZZI, MARIANO J. Muerte del tamarisco, ocasionada por *Botryosphaeria tamaricis*, en Corrientes, Argentina. Rev. Argentina de Agron. 9(2): 110-113, illus., pl. iii-iv. June 1942. Literature cited. 9 R327
- HARRIS, M. R. The behavior of *Endothia parasitica* on chestnut trees in California. Calif. Dept. Agr. Bul. 31(3): 99-109, illus. July/Sept. 1942. Literature cited. 2 C12M
- HILLIER, EDWIN L. The newer Asiatic silver firs and their characteristics described from British-grown specimens. Roy. Hort. Soc. Jour. 66(11, 12): 400-411, 431-443, 3 pl. (fig. 129, 137-140). Nov., Dec. 1941. 84 L84J
- HIRT, RAY R. The relation of certain meteorological factors to the infection of eastern white pine by the blister-rust fungus. N. Y. State Col. Forestry. Syracuse Univ. Tech. Pub. no. 59, 65 pp., illus. Syracuse, May 1942. Literature cited. 99.9 N486T
- IMMEL, RICHARD. L'origine des chênes pyramidaux de l'Europe centrale (The origin of the cypress oaks of Europe). Intersylva (Berlin-Wannsee) 1(3): 314-326, illus. July 1941. Bibliographical footnotes. 99.9 In87
- PARKIN, G. Fungi associated with typical true-wood decays observed in Victorian forest trees. Austral. Forestry 6(2): 82-86. 1942. 99.8 Au74
- PIRONE, PASCAL P. Tree troubles during a wet summer. N. J. Agr. Expt. Sta. Nursery Dis. Notes 15(2): 4-8. Aug. 1942. 464.9 N46
- ROBINSON, FLORENCE B., comp. Tabular keys for the identification of the woody plants. 156 pp. Champaign, Ill., The Garrard press [1941]. 99.3 R56
- TEHON, LEO R. Diseases of trees. (cont.) Amer. Nurseryman 76(7): 30-31. Oct. 1, 1942. 80 Am371
- Collar rot on loquat. First aid for shade trees.

- YOUNG, GEORGE Y., and DODGE, ALBERT F. Storage losses of black locust and other deciduous nursery stock. 43 pp., tables, processed. [Washington, D. C., U. S. Department of agriculture and Soil conservation service, May 1941.] 1.965 A2St6
- ZELLER, SANFORD M., and MILBRATH, J. A. Sycamore leaf- and twig-blight (Anthracnose). Oreg. Agr. Expt. Sta. Cir. Inform. 270, 2pp. Corvallis, May 1942. 100 Or3C

TROPICAL PLANTS

- ALVARADO, JUAN A. El agotamiento del humus en el terreno y su influencia sobre ciertas clases de podredumbres de la raíz; que aparentemente son de origen patógeno y que realmente no son más que casos de inanición y muerte por hambre debido a una alimentación deficiente de la planta VI. Café de El Salvador 12(140): 468-478, illus. Aug. 1942. 68.28 C112
- DESLANDES, JOSUE A. Doenças da mandioca no nordeste. [Brazil] Min. da Agr. Bol. 30(2): 23-41, illus. Feb. 1941. 9.2 Ag83
- SRIKANTIA, C., and KANTIENGAR, N. L. Analysis of Rasपुरi and Badami varieties of mango (*Mangifera indica*) grown in Mysore. Indian Acad. Sci. Proc. Sect. B 15(6): 280-284. June 1942. References. 513 In25B
- WARDLAW, CLAUDE W. Banana research at the Imperial college of tropical agriculture, Trinidad, B. W. I. Roy. Soc. Arts Jour. 90(4621): 644-655. Sept. 4, 1942. 501 L847J

VEGETABLES

- ALEXANDER, LEONARD J. A new strain of the tomato leaf-mold fungus (*Cladosporium fulvum*). Phytopathology 32(10): 901-904, illus. Oct. 1942. Literature cited. 464.8 P56
- ARNOLD, CHARLES, and BROWN, HOWARD D. Soilless culture and its application to the vegetable gardening industry. Veg. Growers' Assoc. Amer. Ann. Rpt. 1940: 95-116, illus. [1941] 81 V52
- CURTIS, LAWRENCE C. Vegetable hybrids get impetus. South. Seedsman 5(5): 7, 30, 35, illus. May 1942. 61.8 So8
- Less costly, second generation hybrids retain the primary advantage of first F₁ generation. Example in summer squash.
- DREWES, HARM. Something new has been added to beets. South. Seedsman 5(10): 10, 31, 35, illus. Oct. 1942. 61.8 So8
- Improved beet strains have tops that stay green despite cold, wet weather.
- GILES, WALTER F. Cauliflower and broccoli. What they are and where they come from. Roy. Hort. Soc. Jour. 66(8): 265-277, 3 pl. (fig. 86-92). Aug. 1941. 84 L84J
- GREEN, DONALD E. Hygiene in the war-time vegetable garden. V-XIV. Roy. Hort. Soc. Jour. 66(5-9, 11): 168-173, 210-214, 251-255, 290-294, 326-332, 417-422, 14 pl. (fig. 58-62, 71-74, 83-85, 96-99, 109-112, 130-135; 67(1-4): 33-39, 62-68, 97-102, 136-142, 8 pl. (fig. 9-13, 20-23, 34-38, 46-49). May-Sept., Nov. 1941, Jan.-Apr. 1942. 84 L84J
- GRIFFITHS, ALBERT E. The viability of lettuce seed: a physiological and microchemical study. N. Y. (Cornell) Agr. Expt. Sta. Mem. 245, 39 pp., illus. Ithaca, June 1942. 100 N48C

- HESTER, JACKSON B. The role of soil organic matter in vegetable crop production. Veg. Growers' Assoc. Amer. Ann. Rpt. 1940: 30-49, illus. [1941] 81 V52
- HOWLETT, FREEMAN S. Use of chemicals to stimulate fruitfulness in tomatoes. Veg. Growers' Assoc. Amer. Ann. Rpt. 1941: 203-214, illus. [1942] 81 V52
- KIRBY, ROBERT S. Control of diseases attacking vegetable crops. Veg. Growers' Assoc. Amer. Ann. Rpt. 1940: 173-187. [1941] Discussion, pp. 187-190. 81 V52
- LACKEY, CHARLES F. Relative concentrations of two strains of curly-top virus in tissues of susceptible and resistant beans. Phytopathology 32(10): 910-912. Oct. 1942. Bibliographical footnotes. 464.8 P56
- LARSON, ANDREW O., and HALLOCK, HAROLD C. Time of planting susceptible beans in relation to curly top injury in south-central Idaho. Jour. Econ. Ent. 35(4): 565-569, illus. Aug. 1942. Literature cited. 421 J822
- LORENZ, OSCAR A. Internal breakdown of table beets. N. Y. (Cornell) Agr. Expt. Sta. Mem. 246, 42 pp., vii pl. Ithaca, June 1942. References. 100 N48C
- McWHORTER, FRANK P. Materials and sprays available for onion mildew spraying. Oreg. Agr. Expt. Sta. Cir. Inform. 276, 3 pp. Corvallis, June 1942. 100 Or3C
- OLIVEIRA, MARIE de L. d' Um virus das liliáceas em Portugal. Agron. Lusitana (Portugal) 3(2): 115-120, pl. 1941. Literature cited. 105.7 Ag8
- Virus disease of onion. English summary.
- OWENS, CHARLES E., and McWHORTER, FRANK P. Late blight of tomato. Tentative suggestions for control in Oregon. Oreg. Agr. Expt. Sta. Cir. Inform. 280, 5 pp., pl. Corvallis, June 1942. 100 Or3C
- PRYOR, DEAN E. The influence of vitamin B₁ on the development of cantaloupe powdery mildew. Phytopathology 32(10): 885-895, illus. Oct. 1942. Literature cited. 464.8 P56
- QUINN, VERNON. Vegetables in the garden and their legends. 261 pp., front., illus. Philadelphia, J. B. Lippincott co., 1942. 91.2 Q4
- REINKING, OTTO A. Distribution and relative importance of various fungi associated with pea root-rot in commercial pea-growing areas in New York. N. Y. State Agr. Expt. Sta. Tech. Bul. 264, 43 pp., illus. Geneva, July 1942. Literature cited. 100 N48
- ROMSHE, F. A. Experiments with greenhouse tomatoes: varieties, cultural methods, and relationship between yield and vegetative vigor. Okla. Agr. Expt. Sta. Bul. B-260, 30 pp. Stillwater, Sept. 1942. 100 Ok4
- SCHROEDER, RAYMOND A. Root temperature as it affects the growth of greenhouse cucumbers. Veg. Growers' Assoc. Amer. Ann. Rpt. 1941: 227-238, illus. [1942] 81 V52
- SNYDER, WILLIAM C. Seed peas and Ascochyta blight. Seed World 52(7): 10-11, 32-34, illus. Oct. 2, 1942. 61.8 Se52
- SOARES BRANDÃO, JOSÉ, FILHO. Algumas doenças do alho. [Brazil] Min. da Agr. Bol. 30(6): 29-34. June 1941. 9.2 Ag83
- SOARES BRANDÃO, JOSÉ, FILHO. Pragas e doenças da cebola. [Brazil] Min. da Agr. Bol. 30(2): 1-8. Feb. 1941. 9.2 Ag83

- SOARES BRANDÃO, JOSÉ, FILHO. A septoriose do tomateiro. [Brazil] Min. da Agr. Bol. 30(11): 19-21. Nov. 1941. 9.2 Ag83
Septoria lycopersici.
- STEINBAUER, CLARENCE E., and others. Cooperative tests of sweetpotato varieties, introductions, and seedlings for starch production and market purposes. U. S. Dept. Agr. Cir. 653, 41 pp., 6 pl. Sept. 1942. Literature cited. 1 Ag84C
Leonard L. Harter, George P. Hoffman, John McD. McCown, R. M. Kingsbury, W. S. Anderson, and Harold T. Cook, joint authors.
- THOMPSON, HOMER C. Effects of temperature and length of day on growth of vegetables. Veg. Growers' Assoc. Amer. Ann. Rpt. 1940: 164-173. [1941] 81 V52
- TIEDJENS, V. A. Quality vegetables through proper use of lime and fertilizer. Veg. Growers' Assoc. Amer. Ann. Rpt. 1940: 49-58, illus. [1941] 81 V52
- TIEDJENS, V. A., and SCHERMERHORN, L. G. Sweet potato investigations in New Jersey. N. J. Agr. Expt. Sta. Bul. 697, 20 pp., illus. New Brunswick, Sept. 1942. 100 N46S
- WADE, BRYAN L. New wax beans have what it takes. South. Seedsman 5(10): 9, 18, 26, illus. Oct. 1942. 61.8 So8
Cooper and Ashley wax beans respond with good yields of straight, tender pods.
- WOODMAN, ROWLAND M. The nutrition of lettuce. Ann. Appl. Biol. 29(3): 213-218. Aug. 1942. References. 442.8 An72

SEE ALSO Potato

SOILS AND FERTILIZERS

- ANDERSON, A. B. C., and EDLEFSEN, N. E. Volume-freezing-point relations observed with new dilatometer technique. Soil Sci. 54(3): 221-232, illus. Sept. 1942. References. 56.8 So3
- BEAR, F. E. Liming the land. N. J. Agr. Expt. Sta. Cir. 451, 4 pp. New Brunswick, Sept. 1942. 100 N46S
- BESANT, J. W. Standardized composts. Roy. Hort. Soc. Jour. 67(5): 163-165. May 1942. 84 L84J
- CARLSON, W. E. Biological experiments with iodine. Amer. Soc. Agron. Jour. 34(9): 861-862. Sept. 1942. 4 Am34P
- CLATKE, G. R. The study of the soil in the field. Ed. 3, 228 pp., chart. London, New York, etc., Oxford university press, 1941. References. 56 C55
- DAVIS, L. E. Significance of Donnan equilibria for soil colloidal systems. Soil Sci. 54(3): 199-219. Sept. 1942. References. 56.8 So3
- ENSMINGER, L. E. Factors affecting the interaction between organic matter and montmorillonite. Soil Sci. 54(3): 191-197. Sept. 1942. References. 56.8 So3
- GRAY, REGINALD. The use of certain cheap organics in agriculture. Fert., Feed. Stuffs and Farm Supplies Jour. 28(14): 339, 341-343. Sept. 30, 1942. 57.8 F413
- HUTCHEON, W. L. The relation of clay and organic matter to soil moisture equilibrium points. Sci. Agr. 23(1): 4-16, illus. Sept. 1942. References. 7 Sci2

- JAMES, NORMAN, and SUTHERLAND, MARJORIE L. Individual plot studies of variation in numbers of bacteria in soil. *Canad. Jour. Res. Sect. C, Bot. Sci.* 20(9): 435-456, illus. Sept. 1942. References, pp. 443, 456. 470 C16CD
- I. Response to cropping; II. The errors of the procedure.
- KEHL, WALTER V., and McKEE, ROLAND. Cover crops for soil conservation. U. S. Dept. Agr. Farmers' Bul. 1758, 14 pp., illus. Issued July 1936, rev. Sept. 1942. 1 Ag84F
- KERR, A. J. A new system of grass-fallow strip-cropping for the maintenance of soil fertility. *Empire Jour. Expt. Agr.* 10(39): 125-132. July 1942. 10 Em7
- KUCINSKI, KAROL J. Preparation and use of artificial manures. *Mass. Agr. Expt. Sta. Bul.* 395, 12 pp., illus. Amherst, Sept. 1942. 100 M38E
- LAWRENCE, W. J. C. The John Innes composts. *Roy. Hort. Soc. Jour.* 67(3): 86-91, illus. Mar. 1942. 84 L84J
- MEHRING, A. L. Consumption of commercial nitrogen as fertilizer in 1941. *Fert. Rev.* 17(3): 2-3, 11-13, illus. July/Sept. 1942. 57.8 T414
- MERKLE, F. G. Conserve nitrogen now. *Better Crops with Plant Food* 26(7): 10-12, 41-42. Aug./Sept. 1942. 6 B46
- MIRANDA SCHMIDT, FREDERICO. Estudio pedo-ecológico massapés. [Brazil] *Min. da Agr. Bol.* 30(9): 41-59, map. Sept. 1941. References. 9.2 Ag83
- ODLAND, T. E., and COX, T. R. Field experiment with phosphate fertilizers. *R. I. Agr. Expt. Sta. Bul.* 281, 27 pp., illus. Kingston, Feb. 1942. Literature cited. 100 R34S
- SAYRE, C. B. Efficient application of fertilizers. *Canning Age* 23(11): 577-579, illus. Oct. 1942. 286.83 C165
- SKINNER, J. J., KNUDSEN, A. R., and COLLINS, E. R. Influence of soil treatment for peanuts on cotton in a cotton, peanut, legume rotation. *Com. Fert.* 65(4): 8-11. Oct. 1942. Literature cited. 57.8 C73
- UHLAND, R. E. Conservation farming insures larger yields. *U. S. Soil Conserv. Serv. [Unnumbered Pub.]* 20 pp., illus., processed. Feb. 1942. 1.96 R31Cf
- VINE, H. Dependence of the rate of corrosion of buried iron on the oxygen supply of the soil. *Soil Sci.* 54(3): 159-176. Sept. 1942. References. 56.8 So3
- VOLK, GARTH W. Waste pond phosphate compared with rock phosphate and superphosphate as a fertilizer. *Amer. Soc. Agron. Jour.* 34(9): 825-829. Sept. 1942. Literature cited. 4 Am34P
- WILDE, S. A. Forest soils: origin, properties, relation to vegetation, and silvicultural management. Ed. 2, rev., 319 pp., illus., processed. Madison, Wis., Mimeographed by Kramer business service, inc., 1942. Selected references interspersed. 56.3 W64

AUTHOR INDEX

<u>Page</u>	<u>Page</u>
Abraham, A.....D-121	Brown, W. V.....D-111
Abramowitz, R. K.....D-121	Burns, G. W.....D-111
Acosta Solis, M.....D-116	Burr, G. O.....D-115
Ahrendt, L. W. A.....D-110, D-131	
Alexander, L. J.....D-135	Cabral, R. V. de G.....D-130
Almeida Francisco, José de.....D-130	Caldwell, John.....D-132
Alvarado, J. A.....D-135	Camara, E. de S. da.....D-114
Ames, Oakes.....D-109	Campbell, J. C.....D-132
Anderson, A. B. C.....D-137	Carlson, W. E.....D-137
Anderson, H. W.....D-128	Carpenter, J. B.....D-122, D-128
Anderson, K. L.....D-129	Carrera, C. J. M.....D-122
Anderson, W. S.....D-137	Carson, G. P.....D-132
Armstrong, J. M.....D-120	Cartwright, K. St. G.....D-134
Arnold, Charles.....D-135	Cassela, Domenico.....D-128
Azevedo Botelho, Epaminondas...D-127	Castañeda, M.....D-119
	Castro, Duarte de.....D-121
Bailey, J. S.....D-128	Chapman, H. D.....D-128
Balcazar, M. R.....D-119	Chester, K. S.....D-123
Baldwin, H. I.....D-134	Chidester, M. S.....D-134
Baldwin, I. L.....D-120	Chilton, St. J. P.....D-124, D-126
Balfour, A. P.....D-109	Chitwood, B. G.....D-131, D-132
Balfour, F. R. S.....D-110, D-134	Choudhuri, H. C.....D-120
Barbosa, Carlos.....D-133	Christensen, B. E.....D-120
Barghoorn, E. S., jr.....D-114	Christensen, J. J.....D-123
Barnett, R. J.....D-128	Christie, J. R.....D-128, D-131
Barron, J. H.....D-129	Chrysler, M. A.....D-113
Bates, W. D.....D-125	Clark, F. E.....D-123
Bear, F. E.....D-137	Clark, K. G.....D-132
Beard, J. S.....D-109	Clark, R. B.....D-111
Berend, A. H.....D-127	Clark, W. A.....D-117
Berry, E. W.....D-118	Clarke, G. R.....D-137
Besant, J. W.....D-137	Clausen, R. T.....D-113, D-116
Bhaduri, P. N.....D-121	Clayton, E. E.....D-119
Birkinshaw, J. H.....D-119	Clement, R. L.....D-132
Blackman, G. E.....D-116	Cohen, A. L.....D-119
Blanton, F. S.....D-131	Colhoun, J.....D-127
Blood, P. T.....D-130	Collins, E. R.....D-138
Bois, Elphège.....D-119	Cook, H. T.....D-137
Borges, M. de L. V.....D-132	Cooke, R. B.....D-117
Bose, A. B.....D-122	Cooley, J. S.....D-128, D-131
Boyd, O. C.....D-122	Coons, G. H.....D-133
Brackeen, L. O.....D-129	Cormack, M. W.....D-129
Brandes, E. W.....D-133	Corrington, J. D.....D-119
Briggs, L. H.....D-119, D-130	Covas, Guillermo.....D-112
Brooks, F. T.....D-122	Cox, T. R.....D-138
Broquist, H. P.....D-120	Crandall, B. S.....D-134
Brown, H. D.....D-135	Crane, M. B.....D-128
Brown, J. R.....D-110	Croizat, Leon.....D-111
Brown, R.....D-121	Crook, H. C.....D-116

	Page		Page
Crovetto, R. M.....	D-119	Fromm, Fritz.....	D-124
Cuatrecasas, J.....	D-111, D-117	Fudge, J. F.....	D-129
Curtis, L. C.....	D-135		
Cutter, V. M., jr.....	D-114	Gardner, C. A.....	D-124
		Gathercoal, E. N.....	D-127
Darlington, C. D.....	D-120	Gavarron, F. F.....	D-119
Davis, L. E.....	D-137	Geddes, W. F.....	D-125
Degener, Otto.....	D-117	Geitler, Lothar.....	D-121
Delcourt, L.....	D-120	Giles, W. F.....	D-135
Delf, E. M.....	D-121	Gisafre, Lorenzo.....	D-119
Deslandes, J. A.....	D-132, D-135	Glendening, G. E.....	D-117, D-129
Deulofeu, Venancio.....	D-120	Glynne, M. D.....	D-125
Di Fonzo, M. A.....	D-127	Gokhale, V. K.....	D-124
Dimick, K. P.....	D-120	Gomes da Luz, C.....	D-114
Dixon, H. N.....	D-115	Goss, R. W.....	D-123
Dobbs, C. G.....	D-114	Gouaux, C. B.....	D-133
Dodd, E. K.....	D-109	Graham, T. W.....	D-133
Dodge, A. F.....	D-135	Gray, Reginald.....	D-137
Doran, W. L.....	D-128	Green, D. E.....	D-135
Dore, W. G.....	D-118	Griffiths, A. E.....	D-135
Dosdall, Louise.....	D-131	Gross, A. E.....	D-132
Down, E. E.....	D-125	Guenther, E.....	D-131
Drewes, Harm.....	D-135		
Dreyer, J. A.....	D-124	Hagborg, W. A. F.....	D-125
Dugand, Armando.....	D-111	Hagelstein, Robert.....	D-114
Durham, O. C.....	D-123	Hallock, H. C.....	D-136
Dykstra, T. P.....	D-132	Harris, M. R.....	D-134
		Harris, R. H.....	D-125
Edlefsen, N. E.....	D-137	Harris, T. M.....	D-119
Ehrlich, John.....	D-134	Harrison, H. H.....	D-117
Elliott, H. G.....	D-129	Harrison, J. W. H.....	D-117
Engstrom, H. E.....	D-134	Harter, L. L.....	D-137
Ensminger, L. E.....	D-137	Hascombe, C. T.....	D-131
Epps, J. M.....	D-126	Hawkins, Arthur.....	D-132
Ewan, J.....	D-113	Hazen, W. E.....	D-115
		Henry, G. F.....	D-125
Ferguson, William.....	D-131	Henry, L. K.....	D-114
Fernald, M. L.....	D-110, D-111	Hester, J. B.....	D-136
Findlay, W. P. K.....	D-119, D-134	Hildebrand, E. M.....	D-128
Fischer, E. B.....	D-127	Hill, A. W.....	D-110
Fischer, G. J.....	D-133	Hillier, E. L.....	D-134
Fitzpatrick, H. M.....	D-114	Hills, C. H.....	D-133
Flintoff, R. J.....	D-117	Hirt, R. R.....	D-134
Folsom, Donald.....	D-132	Hoffman, G. P.....	D-137
Ford, C. E.....	D-133	Hollenberg, G. J.....	D-115
Foster, A. S.....	D-121	Holmgren, A. H.....	D-113
Fotidar, A. N.....	D-121	Honey, E. E.....	D-114
Frakes, M. G.....	D-130	Hotchkiss, Neil.....	D-117
Franzke, C. J.....	D-129	Houghland, G. V. C.....	D-132
Fraps, G. S.....	D-129	House, A. V., jr.....	D-125
Frezzi, M. J.....	D-134	Howard, H. W.....	D-132

	<u>Page</u>
Howlett, F. S.....	D-136
Huberty, M. R.....	D-133
Hume, A. N.....	D-129
Hunkin, J. W.....	D-110
Hurst, C. C.....	D-131
Hutcheon, W. L.....	D-137
Hutchison, J. D.....	D-129
Immel, Richard.....	D-134
Immer, F. R.....	D-125
Inglis, C. C.....	D-124
Ingram, Collingwood.....	D-131
Ingram, William.....	D-115
Iyengar, M. O. P.....	D-116
Jacob, K. T.....	D-111
Jacques, C.....	D-117
James, Norman.....	D-138
Jensen, J. H.....	D-123
John, R. P.....	D-116
Johnson, M. J.....	D-120
Johnson, Thorvaldur.....	D-125
Kantiengar, N. L.....	D-135
Karr, A. E.....	D-118
Kausik, S. B.....	D-121
Keilholz, F. J.....	D-129
Keitt, G. W.....	D-123
Kell, W. V.....	D-138
Kelly, R. W., tr.....	D-118
Kemmerer, A. R.....	D-129
Kerle, W. D.....	D-129
Kern, F. D.....	D-110
Kerr, A. J.....	D-138
Keyworth, W. G.....	D-123
Kingsbury, R. M.....	D-137
Kirby, R. S.....	D-136
Knight, C. A.....	D-123
Knudsen, A. R.....	D-138
Kol, Erzsébet.....	D-116
Kostoff, Dontcho.....	D-121, D-125
Krishna Iyengar, C. V.....	D-121
Kucinski, K. J.....	D-138
Kumar, L. S. S.....	D-121
Labarre, Jules.....	D-120
Labriola, Rafael.....	D-120
Lackey, C. F.....	D-136
Langhe, J. de.....	D-120
Larsen, I. T.....	D-130
Larson, A. O.....	D-136

	<u>Page</u>
Lasser, T.....	D-111
Lauritzen, J. I.....	D-133
Lawrence, E. L.....	D-131
Lawrence, W. J. C.....	D-138
Leary, W. J.....	D-126
Ledingham, R. J.....	D-126
Lefebvre, C. L.....	D-123
Leukel, R. W.....	D-123
Levine, M. N.....	D-125
Li, H.-L.....	D-118
Linder, D. H.....	D-114
Lindsay, George.....	D-111
Long, W. H.....	D-114
Loofbourow, D. G.....	D-121
Loofbourow, J. R.....	D-121
Lopes da Cruz, Admar.....	D-127
Lorenz, O. A.....	D-136
Lowndes, A. G.....	D-120
Luna, J. T.....	D-126
Lundegårdh, Henrik.....	D-121
Ma, Roberta.....	D-115
McConnel, Ruth.....	D-117
McCown, J. M.....	D-137
McGinnies, W. G.....	D-117
Mackay, J. H.....	D-117
McKee, Roland.....	D-138
McKinney, H. H.....	D-133
Mackinnon, J. E.....	D-115
McNair, J. B.....	D-120
McTaggart, Alexander.....	D-117
McWhorter, F. P.....	D-136
Manton, Irene.....	D-113
Marchionatto, J. B.....	D-126
Marin, Luis.....	D-133
Marino, A. E.....	D-126
Marquette, M.....	D-127
Martin, Hubert.....	D-123
Mather, Kenneth.....	D-121
Matthew, L. S.....	D-134
Matzke, E. B.....	D-109
Maw, Dora.....	D-110
Mays, D. W., jr.....	D-129
Mead, H. W.....	D-126
Megee, C. R.....	D-130
Mehring, A. L.....	D-138
Melville, Ronald.....	D-112, D-127, D-128
Meredith, W. O. S.....	D-126
Merkle, F. G.....	D-138
Merrill, E. D.....	D-109, D-112
Merrill, T. A.....	D-130

	Page		Page
Milbrath, D. G.....	D-123	Quinn, Vernon.....	D-136
Miles, L. E.....	D-126	Rabotnov, T. A.....	D-130
Miranda Schmidt, Frederico.....	D-138	Ragonese, A. E....	D-112, D-119, D-130
Moewus, Franz.....	D-116	Ramanathan, K. R.....	D-116
Moore, Frederick.....	D-110	Ratera, E. L.....	D-112
Moran, Reid.....	D-112	Ray, W. W.....	D-114
Morgan, R.....	D-132	Rayner, D. S.....	D-128
Moscrip, John.....	D-128	Rea, P. M.....	D-114
Mulligan, B. O.....	D-112	Redgrove, H. S.....	D-118
Murrill, W. A.....	D-114	Reid, E. H.....	D-118
Muskett, A. E.....	D-127	Reid, M. E.....	D-130
Natividade, J. V.....	D-122, D-128	Reinking, O. A.....	D-136
Nelson, J. W.....	D-120	Rexford, Orcella.....	D-118
Newell, J.....	D-121	Richey, F. D.....	D-121
Nowosad, F. S.....	D-130	Ricker, P. L.....	D-109
Odland, T. E.....	D-138	Robbins, W. J.....	D-114, D-115
O'Kelly, J. F.....	D-127	Robinson, F. B.....	D-134
Olive, L. S.....	D-115	Robinson, Robert.....	D-120
Oliveira, Branquinho d'.....	D-132	Roedel, G. E.....	D-120
Oliveira, M. de L. d'.....	D-136	Rogers, C. H.....	D-127
Obsting, H. J.....	D-117	Rohde, E. S.....	D-118
Osterhout, W. J. V.....	D-122	Roland, A. E.....	D-118
Owens, C. E.....	D-133, D-136	Rolet, Antonio.....	D-124
Palmer, L. S.....	D-120	Rolleston, J. D.....	D-110
Palmiter, D. H.....	D-128	Romshe, F. A.....	D-136
Paltridge, T. B.....	D-117	Ross, J. G.....	D-126
Pam, Albert.....	D-109	Routien, J. B.....	D-115
Pantulu, J. V.....	D-122	Rowland, H.....	D-126
Parham, B. E. V....	D-109, D-118, D-124	Rupp, H. M. R.....	D-112
Parker, B. W.....	D-124	Russell, E. J.....	D-109
Parker, E. R.....	D-128	Russell, R. C.....	D-126
Parker, K. W.....	D-117	Russell, T. A.....	D-132
Parkin, E. A.....	D-124	Russell, W. E.....	D-119
Parkin, G.....	D-134	Ryan, F. E.....	D-129
Parodi, L. R.....	D-117	Ryker, T. C.....	D-126
Patterson, Harold.....	D-132	Sahni, B.....	D-119
Pennell, F. W.....	D-110	Sallans, B. J.....	D-126
Percival, G. P.....	D-130	Sallans, E. R.....	D-126
Person, L. H.....	D-124	Sandwith, N. Y.....	D-112
Peterson, W. H.....	D-120	Sanford, G. B.....	D-133
Pickford, G. D.....	D-118	San Pedro, M. R.....	D-121
Pirone, P. P.....	D-134	Sarson, Henry.....	D-128
Porterfield, W. M., jr.....	D-127	Saunders, A. P.....	D-132
Prebus, A. F.....	D-119	Saunders, A. R.....	D-124
Price, Charles.....	D-133	Savary, Jean.....	D-119
Prince, F. S.....	D-130	Sayre, C. E.....	D-138
Proctor, B. E.....	D-124	Schafer, Brenhilda.....	D-121
Pryor, D. E.....	D-136	Schermerhorn, L. G.....	D-137
P... Magnus.....	D-128	Schery, R. W.....	D-112
		Schiel, Enrique.....	D-130

	<u>Page</u>
Schroeder, R. A.....	D-136
Schroeder, W. A.....	D-120
Scripture, P. N.....	D-130
Seaver, F. J.....	D-115
Semeniuk, William.....	D-126
Senna Braga, Okiro de.....	D-127
Serviss, G. H.....	D-129
Soulke, K. J.....	D-120
Seward, A. C.....	D-119
Shanor, Leland.....	D-115
Sharman, B. C.....	D-126
Shinners, L. H.....	D-112
Shukla, J. P.....	D-120
Silva, C. A. de.....	D-133
Singh, R. N.....	D-116
Skinner, J. J.....	D-138
Slate, G. L.....	D-128
Small, James.....	D-118
Smith, G. E. P.....	D-133
Smith, L. B.....	D-112
Snyder, W. C.....	D-136
Soares Brandão, José....	D-124, D-126, D-129, D-131, D-136, D-137
Sparrow, A. H.....	D-122
Srikantia, C.....	D-135
Stakman, E. C.....	D-124
Stansel, R. H.....	D-126
Steinbauer, C. E.....	D-137
Steiner, Hans.....	D-110
Stephens, J. L.....	D-130
Stoa, T. E.....	D-126, D-131
Stoker, Fred.....	D-112, D-132
Struckmeyer, B. E.....	D-120
Subrahmanyam, R.....	D-116
Suit, R. F.....	D-129
Summerhayes, V. S.....	D-112
Sutherland, M. D.....	D-130
Sutherland, M. L.....	D-138
Suydam, A. B.....	D-110
Sweet, Jack.....	D-118
Tank, R.....	D-132
Tatum, L. A.....	D-126
Taylor, H. J., Mrs.....	D-110
Teakle, L. J. H.....	D-126
Teale, E. W.....	D-110
Tehon, L. R.....	D-134
Thathachar, T.....	D-122
Thind, K. S.....	D-115, D-124
Thirumalachar, M. J.....	D-122

	<u>Page</u>
Thompson, H. C.....	D-137
Thornton, M. H.....	D-120
Tiedjens, V. A.....	D-137
Tobgy, H. A.....	D-119
Tryon, R. M., jr.....	D-113
Tukey, H. B.....	D-129
Turrill, W. B.....	D-113
Uhland, R. E.....	D-138
Van Lanen, J. M.....	D-120
Vansell, G. H.....	D-122
Vargas C., César.....	D-118
Verrall, A. F.....	D-115
Vine, H.....	D-138
Volk, G. W.....	D-138
Voshchinin, P. A.....	D-130
Wade, B. L.....	D-137
Walker, E. H.....	D-113
Wallace, G. J.....	D-118
Walster, H. L.....	D-126
Wanner, Hans.....	D-122
Wardlaw, C. W.....	D-135
Ware, W. M.....	D-124
Warren, C. H.....	D-126
Wasson, R. A.....	D-130
Waters, C. E.....	D-113
Waterston, J. M.....	D-115
Weatherby, C. A.....	D-118
Webb, A. M.....	D-121
Webb, R. A.....	D-119
Wells, B. W.....	D-118
Welsh, M. F.....	D-129
Werdermann, E.....	D-118
Whelan, L. A.....	D-133
Wherry, E. T.....	D-113, D-114
Whetzel, H. H.....	D-115
Whiffen, A. J.....	D-115
Wiedling, Sten.....	D-116
Wiidakas, William.....	D-126
Wilcox, A. N.....	D-129
Wild, A. S.....	D-126
Wilde, S. A.....	D-138
Wildon, C. E.....	D-132
Wilkie, David.....	D-132
Williams, E. G.....	D-116
Williams, L. O.....	D-113
Willis, J. H.....	D-113, D-118
Wilson, M. L.....	D-109

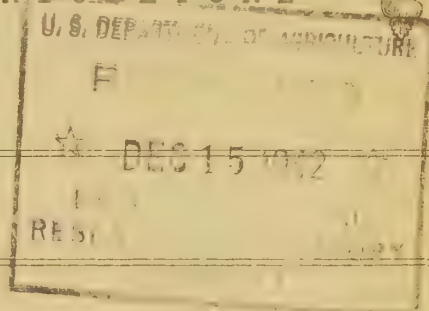
	<u>Page</u>		<u>Page</u>
Wodehouse, R. P.....	D-124	Yarwood, C. E.....	D-115
Wöllner, W. C.....	D-127	Young, G. Y.....	D-135
Woodman, R. M.....	D-137	Youngken, H. W.....	D-127
Woodson, R. E., jr.....	D-113	Yuncker, T. G.....	D-113
Woodward, J. C.....	D-130		
Wright, L. E.....	D-130	Zagallo, A. C.....	D-115
		Zeller, S. M.....	D-135
Yarnell, S. H.....	D-132		

UNITED STATES DEPARTMENT OF AGRICULTURE
Library



BIBLIOGRAPHY OF AGRICULTURE

SECTION D
PLANT SCIENCE



Vol. 1

November 1942

No. 5

The Bibliography of Agriculture is issued monthly
in five sections.

Section A, Agricultural Economics and Rural Sociology.
Supersedes Agricultural Economics Literature.

Section B, Agricultural Engineering. Supersedes Cur-
rent Literature in Agricultural Engineering.

Section C, Entomology. Supersedes Entomology Current
Literature.

Section D, Plant Science. Supersedes Plant Science
Literature.

Section E, Forestry. Continues Forestry Current
Literature, which ceased publication with v. 7,
no. 2, Mar.-Apr. 1940.

The edition of the Bibliography of Agriculture is so limited that
we are unable to fill all of the requests which we receive for it.
If you do not intend to file this publication permanently, please
return it to the Department of Agriculture Library so that it may be
made available to others.

Washington, D. C.

Abbreviations used in this publication are those listed in U. S. Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications. April 1939.

Call numbers following the citations are those of the U. S. Department of Agriculture Library unless otherwise noted.

The Department can supply only its own publications; other items cited may ordinarily be obtained from their respective publishers. Many of them are available for consultation in public or other libraries.

Photoprint or microfilm copies of any publication listed may be obtained from the Library. Order blanks giving prices and method of payment will be sent on request.

BIBLIOGRAPHY OF AGRICULTURE

SECTION D

PLANT SCIENCE

Vol. 1 November 1942 No. 5

Libraries which have special collections on Viticulture and Enology are requested to send information about them to the library of the U. S. Department of Agriculture. The locations of such collections will be published in a later issue of this bibliography.

BOTANICAL SCIENCEGENERAL

- BEERS, C. D. An endorsement of the use of generic names as common nouns. Science 96(2496): 403-404. Oct. 30, 1942. 470 Sci2
- BIBBY, CYRIL. Nomenclature of biological movement. Nature [London] 150(3805): 405. Oct. 3, 1942. 472 N21
- BOITEUX, HENRIQUE. Maderas construção de Santa Catarina. Santa Catarina [Brazil] Inst. Brasil. Geog. Estatís. Dept. Estadual Estatís. Pub. 27, 108 pp., front. col. pl. 1942. 280.9 Sa5
Vernacular names, followed by scientific names with short descriptions of each, pp. 15-108.
- BRECKENRIDGE, ROBERT P. Plant materials for protective concealment. In his Modern camouflage... pp. 106-129, illus. New York, Farrar & Rinehart, 1942. 315 B74
- CLARK, ROBERT B. A guide to the hardy trees and large shrubs of the Missouri botanical garden. Mo. Bot. Gard. Bul. 30(8): 145-176, front., illus. Oct. 1942. 451 M69B
- CROSS, WILLIAM E. Memoria anual del año 1941. Tucumán. Rev. Indus. y Agr. 32(1/3): 5-114, illus. Jan./Mar. 1942. 9 T79
Partial contents: Agricultura de la caña de azúcar; Agricultura general y horticultura (Enrique F. Schultz); Botánica y fitopatología (G. L. Fawcett).
- EVANS, ARTHUR T. A new concept of origin and evolution. Ind. Acad. Sci. Proc. (1941) 51: 22-29. June 1942. 500 In2
From an ecological viewpoint.
- GAGER, CHARLES S. Who established the Elgin botanic garden? Science 96(2498): 439-441. Nov. 13, 1942. 470 Sci2
Dr. David Hosack.
- HERRERA, FORTUNATO L. Plantas endémicas domesticadas por los antiguos peruanos. Vida Agr. 19(225): 591, 593-596. Aug. 1942. 9.8 V66
- LIBERALLI, C. H. Abriço. Notas históricas e filológicas. Rev. da Flora Med. 9(7): 383-387. July 1942. References. 71.8 R32

- MERRILL, ELMER D. The herb garden at the Harvard botanic garden, Cambridge, Massachusetts. Herbarist 7: 36-37, illus. 1941.
80 H41
- PELLETT, FRANK C. Our little known wild flowers. Natl. Council State Gard. Clubs. Bul. 13(6): 3-6. Oct. 1942. 90.32 N21
Agastache anethidora, Asclepias tuberosa, Lepachys pinnati, Aster spp., Silphium spp., Cleome lutea, Slephilia ciliata and others.
- ROUSSEAU, JACQUES. Asa Gray et la publication de la Flore de Provancher. Nat. Canad. 69(8/9): 207-209. Aug./Sept. 1942.
410 N216
- STANFORD, ERNEST E. Plants in a world at war. Nature Mag. 35(9): 457-462, 498, 500, illus. Nov. 1942. 409.6 N214
- SWINGLE, DEANE B. Plant life, a textbook of botany. Ed. 2, 457 pp. New York, D. Van Nostrand co., inc. [1942] 463 Sw6
- TEJARA, HUMBERTO. The gardens of Anahuac. Natl. Council State Garden Clubs. Bul. 13(6): 24-26. Oct. 1942. 90.32 N21
Central Mexico.
- UPHOF, JOHANNES C. T. Ecological relations of plants with ants and termites. Bot. Rev. 8(9): 563-598. Nov. 1942. Bibliography.
450 B6527
- UPSON, HELEN N. The Fairchild Connecticut garden, inc. [In Stratford, Conn.] II. Wild Flower 19(3): 43-48. July 1942. 451 W642
- WEATHERWAX, PAUL. The Indian as a corn breeder. Ind. Acad. Sci. Proc. (1941) 51: 13-21. June 1942. References. 500 In2
- WHEELER, WILLIAM M. Studies of neotropical antplants and their ants. Harvard Univ. Mus. Compar. Zool. Bul. 90(1): 1-262, 57 pl. Oct. 1942. 500 H26B
- WHERRY, EDGAR T. A new wild life preserve in Pennsylvania [near Quarryville, Lancaster county]. Wild Flower 19(3): 58. July 1942. 451 W642
- WHETZEL, HERBERT H. Growing wild flowers from seed. N. Y. Bot. Gard. Jour. 43(514): 244-247, illus. Oct. 1942. 451 N48J
For the preservation of native plants.

BIBLIOGRAPHY

- MUNOZ PIZARRI, CARLOS. Indice bibliografico de las gramineas chilenas. Chile. Dept. Genet. Fitotec. Bol. Tec. no. 2, 88 pp. Santiago, Aug. 1941. 64.9 C43

BIOGRAPHY

- ALLAN, HARRY H. Arthur William Hill, 1875-1942. Roy. Soc. New Zeal. Trans. and Proc. 72(1): xxxvi-xxxviii, port. June 1942. 514 W46
- CHAMBERLAIN, CHARLES J. William Jesse Goad Land. Bot. Gaz. 104(1): 1-2, front. (port.) Sept. 1942. 450 B652
Died Aug. 1, 1942.
- DR. ARTHUR H. ROSENFELD. Sugar Bul. 21(3): 23. Nov. 1, 1942. 65.9 An32
Died Oct. 6, 1942.
- FRANK MARION ANDREWS, July 27, 1870-November 26, 1940. Ind. Acad. Sci. Proc. (1941) 51: 1-2. June 1942. 500 In2

- GILBERT, P. A. A great orchidologist. Austral. Orchid Rev. 7(3): 39. Sept. 1942. References. 80 Au73
Sir Jeremiah Colman, 1859-1942.
- JAMES VICK of Rochester, seedsman and editor. Seed World 52(9): 18-19, port. Nov. 6, 1942. 61.8 Se52
- JOHNSON, EDNA L. Francis Ramaley. Madroño 6(8): 260-262, front. (port.) Oct. 1942. Bibliography. 450 M26
Died June 10, 1942.
- MORTON, CONRAD V., and SCHULTES, RICHARD E. Localidades visitadas y rutas recorridas por E. W. Nelson en el estado de Oaxaca. [Mex.] Inst. de Biol. An. 13(1): 47-51, port. 1942. 442.9 M57
- PALMER, LEROY S. Ross Aiken Gortner, 1885-1942. Science 96(2496): 395-396. Oct. 30, 1942. 470 Sci2
- WRIGHT, RICHARDSON. Early New York seedsmen and nurserymen. Florists' Exch. 99(16): 14; (17): 12. Oct. 17, 24, 1942. 80 F666

SYSTEMATIC BOTANY

- ALLEN, CAROLINE K. Studies in the Lauraceae. V. Some eastern Asiatic species of Beilschmiedia and related genera. Arnold Arboretum Jour. 23(4): 444-463. Oct. 1942. 451 Ar6J
Includes n. gen., n. sp. (Lauromerrillia appendiculata)
- BARKLEY, FRED A. A key to the genera of the Anacardiaceae. Amer. Midland Nat. 28(2): 465-474. Sept. 1942. Bibliographical footnotes. 410 M58
- BARNETT, DUPHEMIA C. The Fagaceae of Thailand and their geographical distribution. Bot. Soc. Edinb. Trans. and Proc. 33(3): 327-343, illus. (map) 1942. 451 Ed4T
- BARROSO, LIBERATO J. Chaves para a determinação de gêneros brasileiros e exóticos das dicotiledoneas mais cultivadas no Brasil. Soc. Brasil. de Agron. Bol. 5(2): 173-180, pl. x-xii. June 1942. 9.2 Sol3
- BEEBLE, ALAN A. Studies in the genus Scirpus L. V. Notes on the section Actaeogeton Reich. Amer. Jour. Bot. 29(8): 653-656. Oct. 1942. 450 Am36
- BROWN, JOHN R. Notes on haworthias. (cont.) Cactus and Succulent Jour. 14(10/11): 143-144, illus. Oct./Nov. 1942. 451 C11
H. viscosa var. torquata.
- CAMP, WENDELL H. On the structure of populations in the genus Vaccinium. Brittonia 4(2): 189-204. Sept. 1942. 450 B77
- CAMP, WENDELL H. A survey of the American species of Vaccinium, subgenus Euvaccinium. Brittonia 4(2): 205-247. Sept. 1942. 450 B77
V. nivictum, V. paludicola n. spp.
- CROIZAT, LEON. Haageocereus Backeburg (syn.: Binghamia Britton and Rose p.p.) Cactus and Succulent Jour. 14(10/11): 145-148. Oct./Nov. 1942. 451 C11
- CROIZAT, LEON. New and critical Euphorbiaceae from the tropical Far East. Arnold Arboretum Jour. 23(4): 495-508. Oct. 1942. 451 Ar6J
Claoxylon subsessiliflorum, Cheilosia whiteana, Sapium plumerioides, n. spp., and many new species of Croton.
- DAVIS, RAY J. Geum triflorum Pursh. Rhodora 44(526): 405-406. Oct. 1942. 450 R34
G. triflorum found to be valid name, G. ciliatum a synonym.

- ERICKSON, RALPH O. The type of *Clematis hirsutissima*. *Madroño* 6(8): 259-260. Oct. 1942. 450 M26
- FERNALD, MERRITT L. *Ranunculus abortivus* L., forma *coptidifolium*. *Rhodora* 44(526): 408. Oct. 1942. 450 R34
- FOSBERG, FRANCIS R. *Cornus sericea* L. (*C. stolonifera* Michx.) *Torrey Bot. Club. Bul.* 69(8): 583-589. Nov. 1942. 451 T63B
- HARTLEY, W. New species and varieties of *Eriachne* R. Br., family Gramineae. *Linn. Soc. London. Jour. Bot.* 52(344): 342-348. Oct. 1942. 451 L64J
- HAWKES, ALEX D. *Stenorrhynchus orchoides*. *Amer. Orchid Soc. Bul.* 11(6): 215. Nov. 1, 1942. 80 Am329
- HOPKINS, MILTON. *Cercis*, its taxonomic relationship in the Oklahoma flora. *Okla. Acad. Sci. Proc.* (1942) 22: 130-131. Literature cited. 500 Ok42
- "Only one species occurs in Oklahoma." Its varieties and form (*C. canadensis* var. *typica* Hopkins; var. *texensis* (S. Wats.) Hopkins; and forma *glabrifolia* Fernald) are described.
- HOWARD, RICHARD A. Studies of the Icacinaceae. III. A revision of *Emmotium*. *Arnold Arboretum Jour.* 23(4): 479-494, iv pl. Oct. 1942. 451 Ar6J
- E. nudum*, *E. floribundum*, *E. conjunctum*, *E. fulvum* n. spp.
- HOWELL, JOHN T. The genus *Scalesia*. *Calif. Acad. Sci. Proc.* 22(11): 221-271. Sept. 30, 1941. Bibliography. 500 Cl2P
- S. crockeri*, n. sp., and four new varieties of *S. pedunculata*.
- HULL, EDWIN D. *Euphorbia geyeri* in Indiana [Gary, Lake county]. *Rhodora* 44(526): 407-408. Oct. 1942. 450 R34
- KOBUSKI, CLARENCE E. Studies in the Theaceae. XIII. Notes on the Mexican and Central American species of *Ternstroemia*. *Arnold Arboretum Jour.* 23(4): 464-478. Oct. 1942. 451 Ar6J
- T. standleyana*, *T. megaloptycha* n. spp.
- KRUKOFF, BORIS A., and MONACHINO, JOSEPH. The American species of *Strychnos*. *Brittonia* 4(2): 248-322. Sept. 1942. Literature cited. 450 B77
- LINDSAY, GEORGE. A new variety of *Ferocactus alamosanus*. *Cactus and Succulent Jour.* 14(10/11): 139-143, illus. Oct./Nov. 1942. 451 Cl1
- F. alamosanus* var. *platygonus*.
- MACKENZIE, KENNETH K. Keys to the North American species of *Carex* from North American flora, v. 18, pts. 107. 80 pp., processed. [New York], New York botanical garden, May 5, 1941. 452.3 M192K
- McVAUGH, ROGERS. Contributions toward a flora of Nevada. No. 22. Rosaceae of Nevada. 100 pp., processed. U. S. Bur. of plant industry, Div. of plant exploration and introduction, June 15, 1942. 1.965 P2C76
- MARTINEZ, MAXIMINO. Una nueva pinacea mexicana, *Picea chihauhuana* sp. nov. [Mex.] *Inst. de Biol. An.* 13(1): 31-34, illus. 1942. 442.9 M57
- MARTINEZ, MAXIMINO. Una nueva pinacea mexicana, *Pinus durangensis* sp. nov. [Mex.] *Inst. de Biol. An.* 13(1): 23-29, illus. 1942. 442.9 M57
- MARTINEZ, MAXIMINO. Una rubiaceae nueva de Mexico. [Mex.] *Inst. de Biol. An.* 13(1): 35-41, illus. 1942. 442.9 M57

- MERRILL, ELMER D., and PERRY, LILY M. *Plantae papuanae archboldianae*. X. Arnold Arboretum Jour. 23(4): 383-416. Oct. 1942. 451 Ar6J
- MUIRHEAD, C. W. *Silene acaulis*. Gard. Chron. 112(2909): 108. Sept. 26, 1942. 80 G162
- NICHOLLS, W. H. Three interesting orchids (new varieties of old established forms). Austral. Orchid Rev. 7(3): 40, illus. (front.) Sept. 1942. References. 80 Au73
- Cymbidium canaliculatum* var. *barrettii*, *Dendrobium canaliculatum* var. *nigrescens*, *D. tetragonum* var. *tomentosum*.
- PIERCE, JOHN H. A new *Dussia* and *Ormosia avilensis*. Torrey Bot. Club. Bul. 69(8): 590-591. Nov. 1942. 451 T63B
- PORTER, CEDRIC L. Studies in Wyoming grasses. IV. Tribe *Hordeae*, the barley grasses. Wyo. Univ. Pubs. 9(2): 17-31. Aug. 31, 1942. 500 W99
- RUPP, HERMAN M. R. An interesting form of *Dendrobium linguiforme*. Austral. Orchid Rev. 7(3): 40. Sept. 1942. 80 Au73
- D. linguiforme* var. *huntianum* [n. var.]
- SMITH, ALBERT C. Studies of Papuanian plants. V. Arnold Arboretum Jour. 23(4): 417-443. Oct. 1942. 451 Ar6J
- New species of *Drimys*, *Bubbia*, and *Belliolum*.
- SMITH, WILLIAM W., and FLETCHER, HAROLD R. The genus *Primula*. [I-III]. Bot. Soc. Edinb. Trans. and Proc. 33(3): 209-226, 227-266, 267-294. 1942. 451 Ed4T
- I. Section *Amethystina*. II. Section *Minutissimae*. III. Section *Muscarioides*.
- SMITH, WILLIAM W., and FLETCHER, HAROLD R. New Asiatic primulas. Linn. Soc. London. Jour. Bot. 52(344): 336-341. Oct. 1942. 451 L64J
- SMITH, WILLIAM W., and FLETCHER, HAROLD R. The section *Soldanelloideae* of the genus *Primula*. Linn. Soc. London. Jour. Bot. 52(344): 321-335. Oct. 1942. 451 L64J
- WHITE, ALAIN, and SLOANE, BOYD L. An oddity in botanical nomenclature. Cactus and Succulent Jour. 14(10/11): 158-159. Oct./Nov. 1942. 451 C11
- Authors make n. comb. *Duvalia polita* var. *parviflora* to replace *D. polita* var. *transvaalensis* made in their book on *Stapeliae*. In following rules of nomenclature all trace of the specific name (*D. transvaalensis*) is lost.
- WHITE, W. L. Studies in the genus *Helotium*. II. *Lachnum pygmaeum* and the status of the genus *Helolachnum*. Amer. Midland Nat. 28(2): 512-523. Sept. 1942. 410 M58
- WILLIAMS, LOUIS O. A new *Gastrodia* from Netherlands New Guinea. Amer. Orchid Soc. Bul. 11(6): 210-211, pl. 6. Nov. 1, 1942. 80 An329
- G. crassisejala*, n. sp.

FERNS AND FERN ALLIES

- PATTERSON, MARY T. Cytology of apogamy in *Polysticum tsussemense*. Bot. Gaz. 104(1): 107-114, illus. Sept. 1942. Literature cited. 450 B652

FUNGI

- BOUSSET, MAURICE. Sur la présence d'acide cyanhydrique chez *Clitocybe claviceps* et *Rhodopaxillus nudus*. Soc. Linn. de Lyon. Bul. Mens. 10(10): 154-155. Dec. 1941. 505 L992B
- CASTLE, EDWARD S. Spiral growth and reversal of spiraling in *Phycomyces*, and their bearing on primary wall structure. Amer. Jour. Bot. 29(8): 664-672, illus. Oct. 1942. Literature cited. 450 Am36
- CUTTER, VICTOR M., JR. Nuclear behavior in the Mucorales - II. The *Rhizopus*, *Phycomyces* and *Sporodinia* patterns. Torrey Bot. Club. Bul. 69(8): 592-616, illus. Nov. 1942. References. 451 T63B
- FLINT, LEWIS H. Note on phototropism in *Pilobolus*. Amer. Jour. Bot. 29(8): 672-674, illus. Oct. 1942. Literature cited. 450 Am36
- HERRICK, JAMES A., and ALEXOPOULOS, CONSTANTINE J. Thiamine production by *Actinomyces viridochromogenus*. Torrey Bot. Club. Bul. 69(8): 569-572. Nov. 1942. Literature cited. 451 T63B
- HIRSCHHORN, ELISA. Una especie de *Ustilago* nueva para la flora Uruguaya (*Ustilago microthelalis* Sydow). La Plata Mus. Notas 7(Bot. no. 35): 21-26, illus. May 5, 1942. 451 L31
- KARLING, JOHN S. A new chytrid with giant zoospores: *Septochytrium macrosporium* sp. nov. Amer. Jour. Bot. 29(8): 616-622, illus. Oct. 1942. Literature cited. 450 Am36
- LOHMAN, MARION L., CASH, EDITH K., and DAVIDSON, ROSS W. An undescribed *Atropellis* on cankered *Pinus virginiana*. Wash. Acad. Sci. Jour. 32(10): 296-298, illus. Oct. 15, 1942. Literature cited. 500 W276J
- A. apiculata* n. sp.
- MARTIN, THOMAS L., ANDERSON, DEAN A., and GOATES, REX. Influence of the chemical composition of organic matter on the development of mold flora in soil. Soil Sci. 54(4): 297-302. Oct. 1942. References. 56.8 So3
- REZENDE PINTO, MANOEL C. de. Hymeniales de Portugal, II (cont.) Brotéria 11(3): 106-136. Aug. 1, 1942. 410 B79C
- RUIZ O., MANUEL. Contribución al conocimiento de las levaduras del aguamiel y del pulque. [Mex.] Inst. de Biol. An. 13(1): 1-21, illus. 1942. 442.9 M57
- Rhodotorula incarnata* n. sp.
- SALVIN, SAMUEL B. Preliminary report on the intergeneric mating of *Thraustotheca clavata* and *Achlya flagellata*. Amer. Jour. Bot. 29(8): 674-676, illus. Oct. 1942. Literature cited. 450 Am36
- SILVEIRA, VERLANDE D. Lições de micologia. (concl.) Soc. Brasil. de Agron. Bol. 5(1, 2): 38-64, 155-172, illus. Mar., June 1942. References. 9.2 Sol3
- Basidiomicetos. Deuteromicetos.
- THIRUMALACHAR, M. J. *Puccinia droogensis* Butler on *Berberis aristata* D. C. Current Sci. [India] 11(7): 282-283, illus. July 1942. 475 Sci23
- VANCHIKOV, K. T. Novi parazitni gubi za Bulgariia. Prinos (Neue parasitische pilze für Bulgarien. I. Beitrag). Spis. Zeml. Opitni Inst. B'lgariia (Rev. Insts. de Rech. Agron. en Bulgarie) 11(4): 33-43. 1941. 106.3 R32
- German summary.

WAKSMAN, SELMAN A., and others. Distribution of antagonistic actinomycetes in nature. Soil Sci. 54(4): 281-296. Oct. 1942.

References. 56.8 So3

Elizabeth S. Horning, Maurice Welsch, and H. Boyd Woodruff, joint authors.

WHIFFEN, ALMA J. A discussion of some species of *Olpidiopsis* and *Pseudolpidium*. Amer. Jour. Bot. 29(8): 607-611, illus. Oct. 1942.

Literature cited. 450 Am36

O. curvispinosa and *O. brevispinosa* n. spp.

CRYPTOGAMS OTHER THAN FUNGI

COUCH, GLENN C. The algae of the Boston Mountain region of Arkansas.

Ohio State Univ. Abs. Doctoral Diss. (1941/42) 38: 39-45. 1942.

241.8 Oh3

FULFORD, MARGARET, and SHACKLETTE, HANSFORD T. A list of Kentucky mosses. Bryologist 45(5): 125-134. Oct. 1942. 450 B84

HAUPT, ARTHUR W. Notes on some Hepaticae of Costa Rica. Bryologist 45(5): 138-146. Oct. 1942. Literature cited. 450 B84

LAMB, IVAN M. A lichenological excursion to the west of Scotland.

Bot. Soc. Edinb. Trans. and Proc. 33(3): 295-326, illus., pl. iii-

iv. 1942. Literature cited. 451 Ed4T

LITTLE, ELBERT L., JR. Liverworts at Rainbow Bridge national monument, Utah. Bryologist 45(5): 148-149. Oct. 1942. 450 B84

LITTLE, ELBERT L., JR. Notes on the genus *Riccia* in New Mexico.

Bryologist 45(5): 147-148. Oct. 1942. 450 B84

MEYER, SAMUEL L. Physiological studies on mosses. IV. Regeneration in *Physcomitrium turbinatum*. Bot. Gaz. 104(1): 128-131, illus.

Sept. 1942 (Oct. 12) 450 B652

PAPENFUSS, GEORGE F. Notes on algal nomenclature. I. *Pollexfenia*,

Jeannerettia and *Mesotrema*. Natl. Acad. Sci. Proc. 28(10): 446-451.

Oct. 1942. Literature. 500 W21P

PARKER, DOROTHY. Additions to the Hepaticae of Indiana. I. Ind. Acad.

Sci. Proc. (1941) 51: 100-102. June 1942. 500 In2

SMITH, GILBERT M. Notes on some brown algae from the Monterey peninsula, California. Amer. Jour. Bot. 29(8): 645-653, illus. Oct.

1942. Literature cited. 450 Am36

Ectocarpus variabilis n. comb. (*E. confervoides* f. *variabilis*);

Dictyoneuropsis n. gen. (Laminariaceae), *D. reticulata* n. comb.

(*Costaria reticulata*).

SVIHLA, RUTH D. Some Marchantiales from Mexico, Costa Rica and Panama.

Bryologist 45(5): 135-137. Oct. 1942. Literature cited. 450 B84

SWANSON, CARROLL A. The effect of culture filtrates on photosynthesis and respiration in *Chlorella vulgaris*. Ohio State Univ. Abs.

Doctoral Diss. (1941/42) 38: 257-262. 1942. Bibliographical foot-

notes. 241.8 Oh3

TSENG, CHENG K., and GILBERT, WILLIAM J. On new algae of the genus

Codium from the South China Sea. Wash. Acad. Sci. Jour. 32(10):

291-296, illus. Oct. 15, 1942. Literature cited. 500 W276J

C. bartlettii, *C. papillatum*, *C. papillatum* var. *hainanense*.

WATSON, WALTER. Notes on lichens in the herbarium of the Royal botanic garden, Edinburgh. III. Bot. Soc. Edinb. Trans. and Proc. 33(3):

183-208. 1942. 451 Ed4T

- WELCH, WINONA H. Studies in Indiana bryophytes. IV. Ind. Acad. Sci. Proc. (1941) 51: 103-113, illus. June 1942. 500 In2
- WHITFORD, LARRY A. Fresh-water algae of North Carolina. Ohio State Univ. Abs. Doctoral Diss. (1941) 37: 315-322. 1942. 241.8 Oh3

GEOGRAPHIC BOTANY AND ECOLOGY

- AUGUSTO, irmão, and EDESIO, irmão. Flora do Rio Grande do Sul. (Plantas catalogadas neste estado até hoje, 1820-1940). (cont.) Rev. Agron. [Rio Grande do Sul] 6(66, 67, 68): 309-312, 380-382, 417-420, illus. June, July, Aug. 1942. 9.2 R325
- BOIVIN, BERNARD. Notes sur quelques introductions récentes dans le Québec. Nat. Canad. 69(8/9): 206-207. Aug./Sept. 1942. 410 N216
- Galinsoga ciliata, Amaranthus paniculatus, Agropyron cristatum, Impatiens roylei and others.
- BURKE, FREDERICK. An inland record of Triglochin maritimum L. Nature [London] 150(3805): 405. Oct. 3, 1942. 472 N21
- From a salt-spring situated at Aldersey, Cheshire.
- CARBONEL, J. Les plantes adventices d'Entraygues (Aveyron). Soc. Linn. de Lyon. Bul. Mens. 10(10): 146-150. Dec. 1941. 505 L992B
- DANIKER, ALBERT U. Das pflanzenkleid des kantons Zürich. Neujahrsbl. Naturf. Gesell. Zürich no. 144, 78 pp., illus. 1942. 508 Z8N
- DEAM, CHARLES C. Indiana plant distribution records, II. 1941. Ind. Acad. Sci. Proc. (1941) 51: 120-129. June 1942. 500 In2
- Report of committee consisting of Charles C. Deam, Ralph Kriebel, Truman G. Yuncker, and Ray C. Friesner.
- DESCROIZILLES, J. V. Notes sur les moeurs du boul-boul (Otocompsa jocosa peguensis). Rev. Agr. de l'île Maurice 21(3): 134-137. May/June 1942. 24 M44
- Dissemination of seed by this bird.
- FARWELL, OLIVER A. Botanizing in 1942. Gray Mem. Bot. Assoc. Jour. 10(1): 12. Oct. 1942. 451 G793
- New locations for various species and first report of Spargula sativa in Michigan.
- FERNALD, MERRITT L. The seventh century of additions to the flora of Virginia. I-II. Rhodora 44(526, 527): 341-405, 416-452, pl. 717-736. Oct., Nov. 1942. 450 R34
- I. High lights of field-trips in 1941. II. Range extensions, technical notes and revisions.
- GILES, NORMAN H., JR. Autopolyploidy and geographical distribution in Cuthbertia graminea Small. Amer. Jour. Bot. 29(8): 637-645, illus. Oct. 1942. Literature cited. 450 Am36
- GROCH, HERBERT. Perennial sow thistle and its smooth variety in Canada. Sci. Agr. 23(2): 127-130. Oct. 1942. References. 7 Sci2
- Sonchus arvensis.
- GUARD, ARTHUR T., and SILVER, W. H. A new station for Orobanche ludoviciana. Ind. Acad. Sci. Proc. (1941) 51: 116-117, illus. June 1942. 500 In2
- Near Wabash River, south of West Lafayette.
- GUEGAN, EDWIN P. A trip to Ord mountain [northeast of Los Angeles]. Cactus and Succulent Jour. 14(10/11): 156-158, illus. Oct./Nov. 1942. 451 C11

- HUFFAKER, CARL B. Vegetational correlations with vapor pressure deficit and relative humidity. Amer. Midland Nat. 28(2): 486-500, illus. (maps) Sept. 1942. References. 410 M58
- JONES, CLYDE H. Additions to the Revised catalogue of Ohio vascular plants. X. Ohio Jour. Sci. 42(5): 201-210. Sept. 1942. 410 Oh3
- LAUGHLIN, EMMA E. Flora of Barnesville, Belmont county, Ohio, and vicinity. Gray Mem. Bot. Assoc. Jour. 10(1): 17-18. Oct. 1942. 451 C793
- MALONEY, M. MARIAN. Revegetation of coal stripped land near Henryetta, Oklahoma. Okla. Acad. Sci. Proc. (1942) 22: 123-129, illus. 500 Ok42
- MARSH, HELEN. A report of progress of the botanical study at the Angel Mounds Site. Ind. Acad. Sci. Proc. (1941) 51: 68. June 1942. 500 In2
- An old Indian village wall east of Evansville, could be traced by variation in species of plants growing on and along it.
- MIRANDA, FAUSTINO. Estudios sobre la vegetación de México. II. Observaciones preliminares sobre la vegetación de la región de Tapachula, Chiapas (1). [Mex.] Inst. de Biol. An. 13(1): 53-70, illus. 1942. 442.9 M57
- MOLDENKE, HAROLD N. The known geographic distribution of the members of the Verbenaceae and Avicenniaceae. 104 pp., processed. New York city [Ann Arbor, Mich., Edwards bros., inc.] 1942. 452.3 M73K
- Based chiefly on an examination of 75,000 herbarium specimens.
- MORGAN, M. W., and WHITEHEAD, JACK. Four interesting South African plants. Cactus and Succulent Jour. 14(10/11): 152-153, illus. Oct./Nov. 1942. 451 C11
- Monsonia multifida, Haworthia truncata, Echinothamnus pechuelii, Pachypodium giganteum.
- OGDEN, EUGEN C. New range-records for linear-leaved species of Potamogeton. Rhodora 44(526): 406-407. Oct. 1942. 450 R34
- P. latifolium in Texas; P. epihydrus var. typicus in South Dakota; P. epihydrus var. nuttallii in Louisiana.
- OSBORN, BEN. Biotic type mapping of Oklahoma watersheds. Okla. Acad. Sci. Proc. (1942) 22: 31-34, illus. (map) Literature. 500 Ok42
- PAREDES C., ALFREDO. Una excursión botánico al Tungurahua [Western Ecuador]. Ecuador Univ. Cent. Inst. Bot. Bol. 1(1): 8-65, 4 pl. June 1942. 451 Ec9
- PIDGEON, ILMA M., and ASHBY, ERIC. A new quantitative method of analysis of plant communities. Austral. Jour. Sci. 5(1): 19-21, illus. Aug. 21, 1942. References. 475.Au72
- POTZGER, JOHN E. Pollen spectra from four bogs on the Gillen nature reserve, along the Michigan-Wisconsin state line. Amer. Midland Nat. 28(2): 501-511, illus. (map) Sept. 1942. References. 410 M58
- SEARS, PAUL B. Postglacial migration of five forest genera. Amer. Jour. Bot. 29(8): 684-691, illus. (maps) Oct. 1942. Literature cited. 450 Am36
- Quercus, Tsuga, Carya, Fagus, and Tilia.
- SIMPSON, GEORGE, and THOMSON, JOHN S. Notes on some New Zealand plants and descriptions of new species. 2. Roy. Soc. New Zeal. Trans. and Proc. 72(1): 21-40, pl. 5. June 1942. References. 514 W46

TEPP, MAX. Arboles y arbustos de la Cordillera patagónica. Bosque forestales... libre adaptación del alemán por E. Wernicke. Ed. 2, 63 pp., illus. (part col.), 25 pl. (part col.), fold. map. Buenos Aires, Del Umbral argentino, 1936. 457.1 T26

"Esta obra es adaptación del libro: Max Tepp: Blumen und bäume am Nahuel Huapi."

TOLSTEAD, WILLIAM L. New and noteworthy records of the flora of Nebraska. Amer. Midland Nat. 28(2): 482-485. Sept. 1942. 410 M58

TOLSTEAD, WILLIAM L. A note on unusual plants in the flora of north-western Nebraska. Amer. Midland Nat. 28(2): 475-481, illus. (incl. map) Sept. 1942. References. 410 M58

WALP, LEE. The ecology of Indian Run Ridge. Gray Mem. Bot. Assoc. Jour. 10(1): 3-4. Oct. 1942. 451 G793

A study in succession of fallowed soil to its climax. (Three miles northwest of Marietta, Ohio)

WERDERMANN, ERICH. Brazil and its columnar cacti. Translated by R. W. Kelly. (On the search for cacti in the heart of Bahia). Cactus and Succulent Jour. 14(10/11, Sup.): 33-40, illus. Oct./Nov. 1942. 451 C11

ECONOMIC BOTANY

BARNETT, O. H. Carnaúba, the tree of life. Brazil Today 1(1): 4-5, illus. Sept. 1940. 280.8 B733

BELL, WILLIS H., and CASTETTER, EDWARD F. The utilization of yucca, sotol, and beargrass by the aborigines in the American southwest. 74 pp. Albuquerque, University of N. Mex. press, 1941. Bibliography. 500 N462

BOWSER, P. H. Commercial herbs; sage, caraway and coriander. Hort. News 8(10): [14-15]. Nov. 1942. Bibliography. 80 H7815

DYE FROM sassafras. Sci. News Letter 42(18): 279. Oct. 31, 1942. 470 Sci24

Simple and economical method of getting coloring matter from root bark may lead to substitution for coal dyes. Tan, brown and gray obtained. New process discovered by Dr. A. C. Shead, University of Oklahoma.

GOMEZ y GUTIÉRREZ, AGUSTIN. Las flores alimenticias, plantas aromáticas y plantas medicinales. Méx. Forest. 20(7/9): 61-64. July/Sept. 1942. 99.8 M57

GUENTHER, ERNEST. Oil of cardamom. Spice Mill 65(11): 36, 38-39, 44, illus. Nov. 1942. 389.8 Sp4

OSBORNE, LILLY de J. Materias tintóreas indígenas. Amer. Indígena [Mexico] 2(1): 87-91. Jan. 1942. 446.9 In8A
English summary.

SINCLAIR, S. M. Notes on a trial planting of oyster nuts in the Mid-Melsetter district. Rhodesia Agr. Jour. 39(5): 332-333, pl. Sept./Oct. 1942. 24 R34
Telfairea pedata.

PALEOBOTANY

BROWN, ROLAND W. A Miocene grapevine from the valley of Virgin Creek in northern Nevada. Wash. Acad. Sci. Jour. 32(10): 287-291, illus. Oct. 15, 1942. Literature cited. 500 W276J
Vitoxydon opalinum n. sp.

TECHNIQUE

- FOSBERG, FRANCIS R. Plant collecting manual for field anthropologists. 22 pp., processed. Philadelphia, American Fiber-Velope mfg. co., 1939. 463.1 F78
- Suggestions for preparation of better quality specimens, by J. M. Fogg, Jr., pp. 20-22.
- GRANT, JULIUS. The electron microscope. Microscope 5(2/3): 29-37, illus. 1942. 440.8 M584
- JUDKINS, WESLEY P. A critical study of the Avena test and extraction methods used in plant hormone investigations and their application to certain horticultural problems. Ohio State Univ. Abs. Doctoral Diss. (1941/42) 38: 61-68. 1942. 241.8 Oh3
- RINEHART, FRANK A. An improved method of studying pollen tubes through the preparation of permanent stylar whole mounts. Okla. Acad. Sci. Proc. (1942) 22: 132-133. Literature cited. 500 Ok42

CHEMISTRY

- BRIGGS, LINDSAY H., and RUSSELL, WILLIAM E. Sophora alkaloids. IV. The alkaloids from the seeds of the Chatham Islands species. [London] Chem. Soc. Jour. 1942: 555-556. Sept. 1942. 382 L84J
- COMAR, CYRIL D. Chloroplast substance of spinach leaves. Bot. Gaz. 104(1): 122-127. Sept. 1942. Literature cited. 450 B652
- DARLINGTON, CYRIL D. Vitamin C and chromosome number in Rosa. Nature [London] 150(3805): 404. Oct. 3, 1942. 472 N21
- EATON, SCOTT V. Volatile sulphur content of black mustard plants. Bot. Gaz. 104(1): 82-89. Sept. 1942. Literature cited. 450 B652
- HOOD, DONALD, and HELLER, VICTOR G. A comparative study of the Williams-Olmsted and Davis-Miller methods for the determination of lignin in plant tissues. Okla. Acad. Sci. Proc. (1942) 22: 116-119. Literature cited. 500 Ok42
- LIEBERMAN, S., and others. Saponins and sapogenins. XX. Bethogenin and trillogenin, new sapogenins from Trillium erectum. Amer. Chem. Soc. Jour. 64(11): 2581-2583. Nov. 1942. Bibliographical footnotes. 381 Am33J
- F. C. Chang, M. R. Barusch, and C. R. Moller, joint authors.
- MOOKERJEE, ASIMA. Function of rauwolscine in Rauwolfia canescens, Linn. Sci. and Cult. [Calcutta] 8(1): 40-41. July 1942. Literature. 475 Sci24
- PUCHER, GEORGE W., and VICKERY, HUBERT B. On the identity of the so-called crassulacean malic acid with isocitric acid. Jour. Biol. Chem. 145(2): 525-532. Oct. 1942. Bibliography. 381 J824
- PUCHER, GEORGE W. The organic acids of the leaves of Bryophyllum calycinum. Jour. Biol. Chem. 145(2): 511-523. Oct. 1942. Bibliography. 381 J824
- ROBBINS, WILLIAM J., and MA, ROBERTA. Pimelic acid, biotin and certain fungi. Science 96(2496): 406-407. Oct. 30, 1942. 470 Sci2
- SWENSON, T. L., and HUMFELD, HARRY. Production of active and inactive catalase by Proteus vulgaris. Jour. Agr. Res. 65(8): 391-403. Oct. 15, 1942. Literature cited. 1 Ag84J
- SWIFT, LYLE J., and WALTER, EDMUND D. Isolation of lupeol from the osage orange (Maclura pomifera Raf.). Amer. Chem. Soc. Jour. 64(11): 2539-2540, illus. Nov. 1942. 381 Am33J

- THIMANN, KENNETH V., SKOOG, FOLKE, and BYER, AVA C. The extraction of auxin from plant tissues. II. Amer. Jour. Bot. 29(8): 598-606. Oct. 1942. 450 Am36
- WALKLEY, ALLAN. The determination of zinc in plant materials. Austral. Jour. Expt. Biol. and Med. Sci. 20(3): 139-147. Sept. 1942. References. 442.8 Au7
- WHITE, JONATHAN W., JR., BRUNSON, ARTHUR M., and ZSCHEILE, FREDERICK P. Studies on the carotenoids, spectrophotometric determination of the carotenoids of yellow corn grain. Indus. and Engin. Chem. Analyt. Ed. 14(10): 798-801. Oct. 15, 1942. Literature cited. 381 J825A

GENETICS AND BREEDING

- ABRAHAM, A. Chromosome number in *Tinospora*. Current Sci. [India] 11(7): 282. July 1942. Bibliographical footnotes. 475 Sci23
- BOYE, CHARLES L. A genetic study of *Coleus*. Ohio State Univ. Abs. Doctoral Diss. (1941) 37: 53-55. 1942. 241.8 Oh3
- FISHER, ROLAND A., and MATHER, KENNETH. Polyploid inheritance in *Lythrum salicaria*. Nature [London] 150(3806): 430. Oct. 10, 1942. 472 N21
- KRISHNASWAMI, NUGGEHALI, and AYYANGAR, G. N. RANGASWAMI. Certain abnormalities in millets induced by X-rays. Indian Acad. Sci. Proc. Sect. B 16(1): 1-9, iv pl. July 1942. Literature cited. 513 In25B
- Found in progenies of X-rayed seeds of *Eleusine coracana* (ragi) and *Pennisetum typhoideum* (pearl millet).
- STEBBINS, GEORGE L., JR. The genetic approach to problems of rare and endemic species. Madroño 6(8): 241-258. Oct. 1942. Literature cited. 450 M26
- UPHOF, JOHANNES C. T. Um nova sistema de seleção vegetal. Fazenda 37(3): 96-98, illus. Mar. 1942. 6 H11

PHYSIOLOGY AND MORPHOLOGY

- ALLISON, FRANKLIN E., HOOVER, SAM R., and MINOR, FRANCIS W. Biochemical nitrogen fixation studies. IV. Experiments with excised legume nodules. Bot. Gaz. 104(1): 63-71. Sept. 1942. 450 B652
- BAUSOR, SYDNEY C. Effects of growth substances on reserve starch. Bot. Gaz. 104(1): 115-121, illus. Sept. 1942. Literature cited. 450 B652
- Experiments with tomato cuttings.
- BURKHOLDER, PAUL R., and McVEIGH, ILDA. The increase of B vitamins in germinating seeds. Natl. Acad. Sci. Proc. 28(10): 440-446. Oct. 1942. Literature. 500 N21P
- CAVE, MARION S. Development of the macrogametophyte of *Miersia chilensis*. Bot. Gaz. 104(1): 185-187, illus. Sept. 1942. Literature cited. 450 B652
- COOPER, GEORGE O. Microsporogenesis and development of seed in *Lobelia cardinalis*. Bot. Gaz. 104(1): 72-81, illus. Sept. 1942. Literature cited. 450 B652
- CORMAN, IVOR. Susceptibility of *Colchicum* and *Chlamydomonas* to colchicine. Bot. Gaz. 104(1): 50-62, illus. Sept. 1942. Literature cited. 450 B652

- DUTT, B., and GUHA-THAKURTA, A. Effect of high concentration auxin on the growth and root formation in *Impatiens*. Bose Res. Inst., Calcutta. Trans. (1939/41) 14: 73-89, pl. xiii-xv. [1942] References. 513 B65
- EIGSTI, ORIE J. A cytological investigation of *Polygonatum* using the colchicine-pollen tube technique. Amer. Jour. Bot. 29(8): 626-636, illus. Oct. 1942. Literature cited. 450 Am36
- EIGSTI, ORIE J. The occurrence of a pollen tube with four sperms and two tube nuclei in *Polygonatum*. Okla. Acad. Sci. Proc. (1942) 22: 134-136, illus. Literature cited. 500 Ok42
P. canticulatum.
- GIRTON, RAYMOND E., and PARK, EDGAR R. Respiration studies on germinating white-oak acorns. Ind. Acad. Sci. Proc. (1941) 51: 83-86. June 1942. Bibliographical footnotes. 500 In2
- GUSTAFSON, FELIX G. Parthenocarpy; natural and artificial. Bot. Rev. 8(9): 599-654. Nov. 1942. Bibliography. 450 B6527
- HAMNER, CHARLES L. Effects of platinum chloride on bean and tomato. Bot. Gaz. 104(1): 161-166, illus. Sept. 1942. Literature cited. 450 B652
- HAYWARD, HERMAN E., BLAIR, WINIFRED M., and SKALING, P. E. Device for measuring entry of water into roots. Bot. Gaz. 104(1): 152-160, illus. Sept. 1942. Literature cited. 450 B652
- HECHT, ADOLPH. Colchicine-induced tetraploidy in *Oenothera*. Ind. Acad. Sci. Proc. (1941) 51: 87-93, illus. June 1942. Literature cited. 500 In2
- KURZ, HERMAN. The effect of cold storage on certain native American perennial herbs. II. Wild Flower 19(3): 49-53. July 1942. Literature cited. 451 W642
- LEDING, ALBERT R. A new spine character in cactus. Cactus and Succulent Jour. 14(10/11): 149-151, illus. Oct./Nov. 1942. 451 C11
Echinocereus from Texas shows "woolly" character in juvenile stage.
- LEWIS, D. The physiology of incompatibility in plants. I. The effect of temperature. Roy. Soc. London Proc. Ser. B 131(862): 13-26, pl. i. Sept. 14, 1942. References. 501 L84B
- MCCANN, LEWIS P. Development of the pistillate flower and structure of the fruit of tung (*Aleurites fordii*). Jour. Agr. Res. 65(8): 361-378, illus., 4 pl. Oct. 15, 1941. Literature cited. 1 Ag84J
- NARASIMHA MURTHY, S. Endosperm formation in *Anisomeles* sp. Current Sci. [India] 11(7): 284-285, illus. July 1942. 475 Sci23
A. malabarica and *A. indica*.
- NIELSEN, CHESTER S. Effects of photoperiod on microsporogenesis in Biloxi soybean. Bot. Gaz. 104(1): 99-106, illus. Sept. 1942. Literature cited. 450 B652
- OVERBEEK, JOHANNES van. Water uptake by excised root systems of the tomato due to non-osmotic forces. Amer. Jour. Bot. 29(8): 677-683. Oct. 1942. Literature cited. 450 Am36
- PERES de MATTOS, HORACIO. Aplicação de hormônios em sementes. Soc. Brasil. de Agron. Bol. 5(1): 65-77, illus. Mar. 1942. Literature. 9.2 Sol3
- PIERCE, ELWOOD C. Biochemistry of salt absorption and accumulation by plants with special reference to the role of ether soluble organic acids. Md. Univ. Abs. Theses 39(13): 19-20. Sept. 1942. 241.8 M36

- POTTZ, GLENN E. A preliminary report on the effects of colchicine on bacteria. Okla. Acad. Sci. Proc. (1942) 22: 139-141. Literature cited. 500 Ok42
- REYNOLDS, MARY E. Development of the node in *Ricinus communis*. Bot. Gaz. 104(1): 167-170, illus. Sept. 1942. Literature cited. 450 B652
- RHOADES, MARCUS M., and VILKOMERSON, HILDA. On the anaphase movement of chromosomes. Natl. Acad. Sci. Proc. 28(10): 433-436, illus. Oct. 1942. 500 N21P
Experiments with maize.
- RILEY, HERBERT P. Cell size in developing ovaries of *Iris fulva*. Bot. Gaz. 104(1): 90-98, diags. Sept. 1942. Literature cited. 450 B652
- ROHRBAUGH, LAWRENCE M. Effects of light quality on growth and mineral nutrition of bean. Bot. Gaz. 104(1): 133-151, diags. Sept. 1942. Literature cited. 450 B652
Red kidney bean.
- SCHROEDER, R. A., and ALBRECHT, WILLIAM A. Plant nutrition and the hydrogen ion - III. Soil calcium and the oxalate content of spinach. Torrey Bot. Club. Bul. 69(8): 561-568. Nov. 1942. Literature cited. 451 T63B
- SETZER, JOSE. Interpretação ecológica da temperatura. Soc. Brasil. de Agron. Bol. 5(1): 5-25. Mar. 1942. References. 9.2 Sol3
- SMALL, JAMES. Zedoary. A pocket-lens study. Food 11(133): 277-280, illus. Oct. 1942. 389.8 F738
Curcuma zedoaria.
- SMITH, FRANK H. Development of the gametophytes and fertilization in *Camassia*. Amer. Jour. Bot. 29(8): 657-663, illus. Oct. 1942. Literature cited. 450 Am36
C. leichtlinii.
- SWAMY, B. G. L. Morphological studies in three species of *Vanda*. Current Sci. [India] 11(7): 285-286, illus. July 1942. 475 Sci23
- SWANSON, CARL P. Some considerations on the phenomenon of chiasma terminalization. Amer. Nat. 76(767): 593-610, illus. Nov./Dec. 1942. Literature cited. 470 Am36
Experiments with *Tradescantia*.
- SWARTLEY, JOHN C. The formation of adventitious roots in *Forsythia suspensa*, *Ribes alpinum*, and *Caragana arborescens*. Ohio State Univ. Abs. Doctoral Diss. (1941/42) 38: 263-268. 1942. 241.8 Oh3
- TAYLOR, HERBERT. A physiological study of diploid and related tetraploid plants. Okla. Acad. Sci. Proc. (1942) 22: 137-138. Literature cited. 500 Ok42
- TODD, FRANK E., and VANSELL, GEORGE H. Pollen grains in nectar and honey. Jour. Econ. Ent. 35(5): 728-731. Oct. 1942. Literature cited. 421 J822
- VILLAGRAN PRADO, FRANCISCO. 4a. Contribucion al conocimiento de las histologia y citologia del maguey (*Agave*). [Mex.] Inst. de Biol. An. 13(1): 43-46, illus. 1942. 442.9 M57
English summary.
- WHITNEY, JOHN B., JR. Effects of the composition of the soil atmosphere on the absorption of water by plants. Ohio State Univ. Abs. Doctoral Diss. (1941/42) 38: 97-103. 1942. 241.8 Oh3

YOUNG, ARTHUR A., and BLANEY, HARRY F. Use of water by native vegetation. Calif. Dept. Pub. Works. Div. Water Resources. Bul. 50, 154 pp., viii pl., tables, diagrs. 1942. Literature cited. 290.9 C123.

PATHOLOGY

(See also crop subheads for diseases of particular plants)

CROSIER, WILLARD. Effect of seed-borne microorganisms on germination. Internatl. Crop Impr. Assoc. Ann. Rpt. (1941) 23: 22-25. [1942] 61.9 In8

GRAHAM, ROBERT J. D. Cuscuta galls. Bot. Soc. Edinb. Trans. and Proc. 33(3): 344-345. 1942. 451 Ed4T

HOPKINS, JOHN C. F. A descriptive list of plant diseases in Southern Rhodesia (and their control). Rhodesia, South., Dept. Agr. Mem. no. 2, 51 pp. Dec. 1939. 24 R346

KHRISTOV, ALEKSAND'R. Opredeliãne zhiznesposobnost'ta chrez otsvëtiãvane s Nile blue sulfate (A differential staining by the aid of Nile blue sulfate). Spis. Zeml. Opitni Inst. B'lgariia (Rev. Inst. de Rech. Agron. en Bulgarie) 11(4): 13-15. 1941. Literature. 106.3 R32
German summary [Experiments with sclerotia of Sclerotinia trifoliorum]

LOOFBOUROW, JOHN R. Role of adenine nucleotides and growth factors in increased proliferation following damage to cells. Nature [London] 150(3803): 349-350. Sept. 19, 1942. Literature. 472 N21
Experiments with yeast (*S. cerevisiae*).

LUDBROOK, WALLIS V. Top rot of maize, sweet corn, and sorghum. Austral. Council Sci. & Indus. Res. Jour. 15(3): 213-216, pl. 2-4. Aug. 1942. References. 514 Au72J

"Several types of bacteria were isolated, sometimes together with *Gibberella fujikuroi* (Saw.) W. var. *subglutinans* Edwards. Occasionally this fungus occurred alone."

MASSEE, A. M. Aphis transmission of strawberry crinkle in Great Britain. Jour. Pomol. and Hort. Sci. 20(1/2): 42-48, ii pl. Aug. 1942. References. 80 J825

MRAK, EMIL M., PHAFF, H. J., and DOUGLAS, H. C. A sporulation stock medium for yeasts and other fungi. Science 96(2497): 432. Nov. 6, 1942. 470 Sci2

Agar made from a water extract of carrots, beets, cucumbers and potatoes.

NEW SOUTH WALES. DEPT. OF AGRICULTURE. BIOLOGICAL BRANCH. Plant diseases (cont.) Agr. Gaz. N. S. Wales 53(8, 9): 380-387, 424-428, illus. Aug. 1, Sept. 1, 1942. 23 N472

Tomato diseases and how to control them. Diseases of beans.

ONTARIO AGRICULTURAL COLLEGE AND EXPERIMENTAL FARM. Department of botany. Ontario Agr. Col. and Expt. Farm (1941) 67: 44-48. Guelph, 1942. 101 On8

Includes plant diseases.

ORTON, CLAYTON R. A national policy on plant disease control. Internatl. Crop Impr. Assoc. Ann. Rpt. (1941) 23: 15-21. [1942] References. 61.9 In8

- RAWLINS, THOMAS E. Recent evidence regarding the nature of viruses. Science 96(2497): 425-426. Nov. 6, 1942. 470 Sci2
- RHODE ISLAND. DEPT. OF AGRICULTURE AND CONSERVATION. Plant disease control. R. I. Dept. Agr. and Conserv. Ann. Rpt. (1941) 7: 57-59. Providence [1942] 2 R34
- SCOTT, DAVID B., JR., and KARR, ERROL H. The influence of insecticides added to soils on growth and yield of certain plants. Jour. Econ. Ent. 35(5): 702-708, illus. Oct. 1942. Literature cited. 421 J822
- SILBERSCHMIDT, KARL. Progressos teóricos e práticos no campo da virologia. Soc. Brasil. de Agron. Bol. 5(1): 78-83. Mar. 1942. Literature. 9.2 Sol3

WEEDS AND POISONOUS PLANTS

- STEYN, DOW G., and WALT, S. J. van der. Chinkerinchee or Star of Bethlehem poisoning of stock. Farming in So. Africa 17(191): 133-136, illus. Feb. 1942. 24 So842
- Ornithogalum spp.
- YUNCKER, THUMAN G. A note on the precocious germination of dodder seed. Ind. Acad. Sci. Proc. (1941) 51: 114-115, illus. June 1942. 500 In2

CROP PLANTS (Includes Diseases)

GENERAL

- CLARKE, OSCAR F. Amaranths, or pigweeds, as volunteer cover crops. Citrus Leaves 22(10): 6. Oct. 1942. 80 C492
- CLEMSON AGRICULTURAL COLLEGE, S. C. EXTENSION SERVICE. Agronomy handbook for South Carolina. Clemson Agr. Col., S. C. Ext. Serv. Bul. 104, 137 pp., illus., maps. Clemson, Aug. 1942. 275.29 So8F
- COX, JOSEPH F., and JACKSON, LYMAN. Field crops and land use. 473 pp., illus. N. Y., John Wiley & sons, inc., 1942. Bibliography. 64 C83F
- SCHLOTTO, BARTOLOME. Informe anual correspondiente al año agrícola 1941/42. "La Previsión" Chacra Expt. [Argentina] Bol. 3(3): 113-184, illus. May 1941/Apr. 1942 (May 1942). 9 P92
- English summary.
- SCHNYDER, ARNOLD. Praktische ackerbaufragen. Vortrag, gehalten in der Gesellschaft schweizerischer landwirte in Zürich am 12. März 1942. Schweiz. Landw. Monatsh. 20(4): 91-110, illus. Apr. 1942. 17 Sch93

CEREALS

- ALDRICH, SAMUEL R. Plant measurements as indices of relative and absolute maturities in corn. Ohio State Univ. Abs. Doctoral Diss. (1941/42) 38: 115-126. 1942. 241.8 Oh3
- Pt. I. Review of literature; II. Kernel development in snocked corn. Review of literature; III. Field surveys...1940, 1941.
- AVERY, GEORGE S., JR., BERGER, JULIUS, and SHALUCHA, BARBARA. Total auxin extraction from wheat. Amer. Jour. Bot. 29(8): 612-616. Oct. 1942. Literature cited. 450 Am36

- CLEMSON AGRICULTURAL COLLEGE, S. C. EXTENSION SERVICE. The corn contest - 1941. Clemson Agr. Col., S. C. Ext. Serv. Cir. 206, 8 pp., illus. Clemson, Mar. 1942. 275.29 So8E
Sponsored by Sears, Roebuck and Company and the American Potash Institute.
- CORREIA, ILDEFONSO F. Processo "B.H." de autofecundação do milho. Ceres [Minas Gerais] 3(15): 136-139, illus., pl. Nov./Dec. 1941. 9.2 C332
English summary.
- DICKSON, JAMES G. Scab of wheat and barley and its control. U. S. Dept. Agr. Farmers' Bul. 1599, rev., 22 pp., illus. Oct. 1942. 1 Ag84F
- DINES, FREDERIC T. The determination of wheat varieties by kernel, characteristics and some of its uses. Internatl. Crop Impr. Assoc. Ann. Rpt. (1941) 23: 45-54. [1942] 61.9 In8
- GARCIA, J. B. Las variedades de arroz y los tipos comerciales. Rev. de Agr. [Cuba] 24(17): 107-110, illus. May 1941/Mar. 1942. 8 Ag88Re
- GLYNN, MARY D. Eyespot in wheat. A disease causing lodging and straggling. Agriculture (Jour. Min. Agr. Gt. Brit.) 49(2): 91-94, pl. Sept. 1942. 10 G79J
Cercospora herpotrichoides.
- GUBLER, CLARK J., and GREAVES, JOSEPH E. Cystine content of wheat and its quantitative determination. Food Res. 7(5): 405-413. Sept./Oct. 1942. References. 389.8 F7322
- HOADLEY, ALFRED L. A study of the nature of resistance of dent corn to Diplodia zeae (Schw.) Lev. stalk rot. Md. Univ. Abs. Theses 39(13): 11-13. Sept. 1942. 241.8 M36
- ISELY, C. C. Soil analysis a factor in good bread. Northwest. Miller 211(4): 7, 22, 26, illus. July 22, 1942. 298.8 N81
- KELLER, KENNETH R. Evaluation of some morphological characters of corn in respect to their use in forecasting yield. Amer. Soc. Agron. Jour. 34(10): 940-953. Oct. 1942. Literature cited. 4 Am34F
- KOEHLER, BENJAMIN. Disease infection in hybrid seed corn. Internatl. Crop Impr. Assoc. Ann. Rpt. (1941) 23: 26-31. [1942] 61.9 In8
- LEAKE, MARCELLOTTE. The use of colchicine in determining the origin of foliar organs in the wheat embryo. Okla. Acad. Sci. Proc. (1942) 22: 115. Literature cited. 500 Ok42
- LÓPEZ R., GABRIEL, and CABAL MARTÍNEZ, EFREN. Reseña de los trabajos adelantados por el Departamento de arroz. Agr. y Ganad. [Bogotá] 13(30/31): 1019-1042, illus. Dec. 1941. 9.4 In22
- MACHACEK, JOHN E., and WALLACE, H. A. H. Nonsterile soil as a medium for tests of seed germination and seed-borne disease in cereals. Canad. Jour. Res. Sect. C, Bot. Sci. 20(11): 539-557. Nov. 1942. References. 470 C16C
- MEAD, H. W. Environmental relationships in a seed-borne disease of barley caused by Helminthosporium sativum Pammel, King, and Bakke. Canad. Jour. Res. Sect. C, Bot. Sci. 20(11): 525-538. Nov. 1942. References. 470 C16C
- MELO, M. E. Importancia del arroz en la agricultura Panameña. Agr. y Com. [Panama] 1(1): 54-57, illus. Sept. 1941. 8 R3291

- MYLER, JAMES L. *awn inheritance in barley.* Jour. Agr. Res. 65(9): 405-412, illus. Nov. 1, 1942. 1 Ag84J
- ROGERS, JOHN S. *Texas hybrid corn.* South. Seedsman 5(11): 9, 32, 36, illus. Nov. 1942. 61.8 So8
- Hybrids outstrip open-pollinated varieties in tests at four Texas substations and in Arkansas.
- SPRAGUE, GEORGE F., and TATUM, LLOYD A. *General vs. specific combining ability in single crosses of corn.* Amer. Soc. Agron. Jour. 34(10): 923-932. Oct. 1942. Literature cited. 4 Am34P
- SPRAGUE, GEORGE F., and HIXON, R. M. *Waxy corn, a new crop.* Iowa State Col. Farm Sci. Rptr. 3(4): 10-11, illus. Ames, Oct. 1942. 275.28 F22
- VALLE, C. G. del. *El maíz híbrido.* Rev. de Agr. [Cuba] 24(17): 8-34, illus. 1942. Literature. 8 Ag88Re
- ✓ WHITE, JONATHAN W., JR., ZSCHEILE, FREDERICK P., and BRUNSON, ARTHUR M. *The carotenoids of yellow corn grain.* Amer. Chem. Soc. Jour. 64(11): 2603-2606. Nov. 1942. Bibliographical footnotes. 381 Am33J

COTTON AND OTHER FIBER PLANTS

- ADAMS, FRANK, VEIHMAYER, F. J., and BROWN, LLOYD N. *Cotton irrigation investigations in San Joaquin valley, California, 1926 to 1935.* Calif. Agr. Expt. Sta. Bul. 668, 93 pp., illus. Berkeley, Aug. 1942. 100 C12S
- ANDRADE, ANDERSON C. de. *Podridão das raízes (Rosellinia) em juta indiana.* Biologico 8(8): 217-218. Aug. 1942. 442.8 B529
- BEASLEY, JAMES O., and BROWN, META S. *Asynaptic Gossypium plants and their polyploids.* Jour. Agr. Res. 65(9): 421-427, illus. Nov. 1, 1942. Literature cited. 1 Ag84J
- CHOUDHURY, J. K. *On the variation of carbohydrates and their translocation in the jute plant (Corchorus capsularis, Linn.) I.* Bose Res. Inst., Calcutta. Trans. (1939/41) 14: 141-162. [1942] References. 500 B65
- EZEKIEL, WALTER N. *Transmission of diseases on and in cotton seed.* Internatl. Crop Impr. Assoc. Ann. Rpt. (1941) 23: 32-38, illus. (map) [1942] 61.9 In8
- GREGORY, PUTHENPARAMPIL J. *A cytological study of the microsporogenesis in jute.* Bose Res. Inst., Calcutta. Trans. (1939/41) 14: 1-16, illus., pl. i-iii. [1942] Literature cited. 513 B65
- ILIEV, PET'R. *Unasledjavane finost'ta na pamuchnite vlakna v prvata filialna generatsiia (Feinheitserbung bei den baumwollenen fasern in der ersten generation).* Spis. Zeml. Opitni Inst. B'lgariia (Rev. Insts. de Rech. Agron. en Bulgarie) 12(1/2): 51-58, illus. 1942. Literature. 106.3 R32
- German summary.
- JACOB, K. T. *Preliminary observations on the chromosome morphology in Asiatic cottons with special reference to their phylogeny and interrelationships.* Bose Res. Inst., Calcutta. Trans. (1939/41) 14: 191-200, pl. xix. [1942] Literature cited. 500 B65
- EL LINO en el Valle de Pativilca-Supe. *Vida Agr.* 19(220): 181, 183, 185, 187, 189-190, illus. Mar. 1942. 9.8 V66
- In Peru.

- MABUCO de ARAUJO, C. E., JR. Fibers of Brazil. Chem. and Engin. News 20(20): 1296-1299, illus. Oct. 25, 1942. 381 J825N
- PALIT, BENYO K. Studies on the growth and development of jute (*Corchorus capsularis*) with special reference to (1) the requirement of boron during its life-cycle and (2) the relation of boron to the 'dieback' effect. Bose Res. Inst., Calcutta. Trans. (1939/41) 14: 111-125, pl. xvi-xvii. [1942] References. 513 B65
- PEREZ RODRIGUEZ, OCTAVIO. La viruela del algodón (*Puccinia schedonardy*). Bol. Defensa Agr. [Mexico] no. 5/6, pp. 15-17. June/July 1941. 423.92 M57B
- ROOT-ROT of cotton. Indian Farming 3(7): 385-386. July 1942. 22 In283
- Symptoms of the disease. Methods of control.
- SMITH, H. P., BYROM, M. H., and MORRIS, HARRY F. Germination of cotton-seed as affected by soil disturbance and machine placement of fertilizer. Tex. Agr. Expt. Sta. Bul. 616, 29 pp., illus. College Station, Aug. 1942. Literature cited. 100 T31S
- TIVER, N. S. Studies in the flax plant. I. Physiology of growth, stem anatomy and fibre development in fibre flax. Austral. Jour. Expt. Biol. and Med. Sci. 20(3): 149-160, 2 pl. Sept. 1942. 442.8 Au7
- WILLE, JOHANNES E., and GARCÍA RADA, GERMAN. Los insectos y las enfermedades del lino. [Peru] Min. de Fomento. Dir. Agr. y Ganad. Informe no. 54, 19 pp., illus., 4 col. pl. Apr. 1942. 102.5 L622In
- Las enfermedades del lino, pp. 11-19, by García Rada.

DRUG PLANTS

- HOPKINS, JOHN C. F. Stramonium or stinkblaar. A medicinal herb required for war purposes. Rhodesia Agr. Jour. 39(5): 350-352, 2 pl. Sept./Oct. 1942. 24 E34
- SCHULTES, RICHARD E. Plantae colombianae II. Yoco: a stimulant of southern Colombia. Harvard Univ. Bot. Mus. Leaflet 10(10): 301-324, illus. (map), pl. xxvii-xix. Oct. 30, 1942. 451 H262
- Paullinia yoco* n. sp.
- TANTAQUIDGEON, GLADYS. Medicine practices of the Indians of southern New England. Herbarist 7: 16-21. 1941. 80 H41
- Introduction by Janet G. B. MacCurdy.
- YOUNGKEN, HEBER W. Belladonna. Herbarist 7: 7-15, illus. 1941. 80 H41

FRUITS AND NUTS

- APPLE Exquisite. Gard. Chron. 112(2911): 129. Oct. 10, 1942. 80 G162
- APRICOT manurial trial at Light Pass, South Australia. Fruit World & Market Grower 42(9): 15-16; (11): 17-18. Sept. 5, Nov. 5, 1941. 80 F948
- BEACH, FRANK H. Pint-size trees that bear top-size fruits. Better Homes & Gardens 21(3): 68-70, illus. Nov. 1942. 80 F9424
- Apple and pear.
- CANNING peach manurial experiment: five year results, consistent advantages due to sulphate of ammonia. Fruit World & Market Grower 42(5): 11-12. May 5, 1942. 80 F948
- Conducted at Kyabram, Victoria.

- CHANDLER, WILLIAM H. Deciduous orchards. 438 pp., illus., tab.,
diagrs. Philadelphia, Lea & Febiger, 1942. 93 C362
- CHAPMAN, HOMER D., and BROWN, SAMUEL M. Some fungal infections of
citrus in relation to nutrition. Soil Sci. 54(4): 303-312, illus.
Oct. 1942. References. 56.8 So3
- Potassium nutrition and *Phytophthora parasitica* and *Alternaria*
citri infection; phosphate and *Thielavia basicola* infection.
- FERRAZ do AMARAL, J. Híbridas de Seibel rústicas, para vinhos branco
e tinto. Biológico 8(5): 139-141, pl. xv-xvi. May 1942.
442.8 B529
- FRASER, LILIAN. Citrus decline in the Murrumbidgee irrigation area.
Agr. Gaz. N. S. Wales 53(9): 415-419, illus. Sept. 1, 1942.
23 N472
- Importance of *Phytophthora* root rot (*P. citrophthora*).
- FRASER, LILIAN. *Phytophthora* root rot of citrus. Austral. Inst.
Agr. Sci. Jour. 8(3): 101-105, illus. Sept. 1942. References.
23 Au74
- GAYNER, F. C. H. Studies in the non-setting of pears. VII. The growth
cycle and fruit bud differentiation of Conference and Doyenné du
Comice. Jour. Pomol. and Hort. Sci. 20(1/2): 24-39, ii pl. Aug.
1942. References. 80 J825
- GRAPE growers should study symptoms of Pierce's disease. Blue Anchor
19(4): 9-11, 25-27, illus. Nov. 1942. 286.83 B62
- HUGUES, A. How orange trees are cultivated. Amer. Perfumer and
Essential Oil Rev. 44(10): 31-34, illus. Oct. 1942. 308.8 Am3
- Methods employed in Europe to produce the richest oil. Factors
governing yield of flowers in distillation. Other products. Uses.
- ISAAC, WILLIAM E. The incidence of superficial scalds in apples grown
in South Africa in relation to storage temperatures. Jour. Pomol.
and Hort. Sci. 20(1/2): 12-23. Aug. 1942. Literature cited.
80 J825
- JENKINS, ANNA E., and BITANCOURT, AGESILAU A. Antracnosis de la vid
en Chile. Chile. Dept. de Sanid. Veg. Bol. 1(1): 19-53, illus.
(incl. map). July 1941. 464.9 C432B
- KALASHNIKOV, V. M. Orekhoplodnye Dal'nogo Vostoka [Nut trees from the
Far East]. Vest. Selsk. Nauk. Plad-Iagod. Kult. [Moskva] (1940) 5:
60-68, illus. 1940. 80 V63
- Russian.
- KLOTZ, LEO J., and FAWCETT, HOWARD S. Brown rot control. Calif.
Citrog. 28(1): 18. Nov. 1942. 80 C125
- KRAMER, AMIHUD, and SCHRADER, ALBERT L. Effect of nutrients, media,
and growth substances on the growth of the Cabot variety of *Vaccinium*
corymbosum. Jour. Agr. Res. 65(7): 313-328, illus., col. pl.
Oct. 1, 1942. Literature cited. 1 Ag84J
- KRAMER, AMIHUD. Mineral nutrition of the blueberry. Md. Univ. Abs.
Theses 39(13): 53-54. Sept. 1942. 241.8 M36
- LEWIS, D. Parthenocarpy induced by frost in pears. Jour. Pomol.
and Hort. Sci. 20(1/2): 40-41. Aug. 1942. References. 80 J825
- LINEBERRY, RICHARD A., and COLLINS, EMERSON R. Fertilizing straw-
berries in North Carolina. N. C. Agr. Expt. Sta. Bul. 332, 20 pp.,
illus. State College Station, Mar. 1942. Literature cited.
100 N81

- LOTT, RICHARD V. Effect of nitrate of soda on development of the Halehaven peach. Ill. Agr. Expt. Sta. Bul. 493, pp. 323-384. Urbana, Oct. 1942. Literature cited. 100 I16S
- McWHORTER, OVID T. Peach twig blight hits orchards hard. Better Fruit 37(4): 3. Oct. 1942. 80 B46
- NITRATE of soda for citrus trees. Tex. Farming and Citric. 19(4): 12. Oct. 1942. 80 T31
- OBREGÓN BOTERO, RAFAEL. Algunas enfermedades de las plantas en la zona frutera de Boyacá. Rev. Facult. Nac. de Agron. [Colombia], 5(19): 594-633. 1942. 9.4 C717
- Apple and peach.
- ROLFS, FRED M. Apple blotch. Okla. Agr. Expt. Sta. Bul. B-261, 15 pp., illus. Stillwater, Oct. 1942. 100 Ok4
- Phyllosticta solitaria.
- SHUTAK, VLADIMIR G. Factors associated with skin-cracking of York Imperial apples. Md. Univ. Abs. Theses 39(13): 55-57. Sept. 1942. 241.8 M36
- SINGH, LAL, and SINGH, SHAM. Grapevine varieties at Lyallpur. Indian Farming 3(7): 372-375, pl. 84. July 1942. 22 In283
- SINHA, ADYA C. Studies on the vegetative propagation of plum rootstocks by layering. Jour. Pomol. and Hort. Sci. 20(1/2): 1-11. Aug. 1942. Literature cited. 80 J825
- SMOCK, ROBERT M. Influence of controlled-atmosphere storage on respiration of McIntosh apples. Bot. Gaz. 104(1): 178-184. Sept. 1942. Literature cited. 450 B652
- SWARTWOUT, HAROLD G., and MARTIN, W. R., JR. Growing raspberries and blackberries. Mo. Agr. Expt. Sta. Bul. 450, 32 pp., illus. Columbia, Aug. 1942. 100 M693
- Diseases, pp. 28-31.
- TARTAKOWSKY H., SERCIO J., and ARNTSEN S., SIGURD T. La antracnosis de la vid. Chile. Dept. de Sanid. Veg. Bol. 1(1): 7-18. July 1941. 464.9 C432B
- TIKHONOV, N. N. Vinograd na Dal'nem Vostoke [Grapes from the Far East]. Vest. Selsk. Nauk. Plad.-Iagod. Kult. [Moskva] (1940) 5: 33-45, illus. (incl. map) 1940. 80 V63
- Russian.
- TROUT, STANLEY A., and others. Studies in the metabolism of apples. I. Preliminary investigations on internal gas composition and its relation to changes in stored Granny Smith apples. Austral. Jour. Expt. Biol. and Med. Sci. 20(3): 219-231. Sept. 1942. 442.8 Au7
- E. G. Hall, Rutherford N. Robertson, Frances M. V. Hackney, and S. M. Sykes, joint authors.
- TUKEY, HAROLD B., and YOUNG, J. ORAN. Gross morphology and histology of developing fruit of the apple. Bot. Gaz. 104(1): 3-25, illus. Sept. 1942. Literature cited. 450 B652
- UPHOF, JOHANNES C. T. A ferrugem das citricas. Fazenda 37(2): 57, illus. Feb. 1942. 6 H11
- Sphaceloma citri.
- VINSON, CARL G., and CROSS, FRANK B. Vitamin C content of persimmon leaves and fruits. Science 96(2497): 430-431. Nov. 6, 1942. 470 Sci2

- WALLS, LESLIE P. The nature of the volatile products from apples. Jour. Pomol. and Hort. Sci. 20(1/2): 59-67. Aug. 1942. References. 80 J825
- ZHAVORONKOV, P. N. Formy Sibirskoi iagodnoi iabloni [The Siberian crab apple, *Malus baccata*]. Vest. Selsk. Nauk. Plad.-iagod. Kult. [Moskva] (1940) 5: 53-59, illus. 1940. 80 V63
Russian.

GRASSES AND FORAGE PLANTS

- AVILA de ARAUJO, ANACREONTE. Forrageiras para climas frio. I. O azevem (*Lolium multiflorum* Lam.) Chacaras e Quintaes 66(1): 73-75, illus. July 15, 1942. 9.2 C34
- AVILA de ARAUJO, ANACREONTE. A grama cinzenta. Rev. Agron. [Rio Grande do Sul] 6(67): 377-379, illus. July 1942. 9.2 R325
Paspalum plicatulum Michaux var. *arenarium* Arech.
- BLASER, R. E. Clover pastures for the Coastal Plains. Better Crops with Plant Food 26(8): 6-10, 41-43, illus. Oct. 1942. 6 B46
- BRITTINGHAM, WILLIAM H. The nature and extent of variation in Kentucky bluegrass as criteria for type of seed-formation and its practical implications. Md. Univ. Abs. Theses 39(13): 9-11. Sept. 1942. 241.8 M36
- CHEPIKOVA, A. R. Fiziologicheskie osobennosti pobegov mnogoletnikh tsav, obrazovavshikhsia v raznoe vremia vegetatsionnogo periodia (The physiological peculiarities of perennial grasses which are formed at different times of the vegetative period). Vest. Selsk. Nauk. Kormod. [Moskva] (1940) 5: 41-47. Literature. 60.8 V63
Russian.
- COBB, G. R. Growing legumes for nitrogen. Better Crops with Plant Food 26(8): 20-22, 40-41, illus. Oct. 1942. 6 B46
- CUSHING, R. L. Leoti for starch. Nebr. Agr. Expt. Sta. Cir. 69, [4] pp. Lincoln, May 1942. 100 N27
Sorghum var. *Leoti*.
- DORE, WILLIAM G., and RAYMOND, LEE C. Pasture studies. XXIV. Sci. Agr. 23(2): 69-79, illus. Oct. 1942. References. 7 Sci2
XXIV. Viable seeds in pasture soil and manure.
- DREGNE, H. E., and POWERS, WILBUR L. Boron fertilization of alfalfa and other legumes in Oregon. Amer. Soc. Agron. Jour. 34(10): 902-912, illus. (incl. map) Oct. 1942. Literature cited. 4 Am34P
Boron deficiency symptoms described and boron content of plants compared to supply of available boron in soil.
- FRANKLIN, M. C., and POWNING, R. F. Studies on the chemical composition of pods and seeds of certain species of *Medicago*, with a note on the apparent digestibility of cluster clover (*Trifolium glomeratum* L.) seed. Austral. Council Sci. & Indus. Res. Jour. 15(3): 191-200. Aug. 1942. References. 514 Au72J
- GREGORY, G. B. Guatemala grass as a fodder crop in St. Lucia. Trop. Agr. [Trinidad] 19(10): 192-193. Oct. 1942. 26 T754
- HELLER, VICTOR G., and HOOD, DONALD. Nitrogen and carotene partition in the alfalfa plant. Okla. Acad. Sci. Proc. (1942) 22: 65-67. Literature cited. 500 Ok42
- HELY, F. W. The place of lucerne and annual species of *Medicago* in Australian cereal areas. Austral. Inst. Agr. Sci. Jour. 8(3): 93-100. Sept. 1942. References. 23 Au74

- HINKLE, D. A. Efficiency of various phosphate fertilizers on calcareous soils for alfalfa and sweet clover. Amer. Soc. Agron. Jour. 34(10): 913-918, illus. Oct. 1942. Literature cited. 4 Am34P
- KNAPP, J. S. Grasses for airports. Seed World 52(9): 38. Nov. 6, 1942. 61.8 Se52
- MANKE, KARL F. Growing sweet clovers in Texas. Cattleman 29(6): 91-92, illus. Nov. 1942. 49 C29
- MILLER, E. A. Winter legumes in Texas. Tex. Livestock Jour. 1(10): 7. Oct. 1942. 49 T29
- MYERS, WILL M., and HILL, H. D. Variations in chromosomal association and behavior during meiosis among plants from open-pollinated populations of *Dactylis glomerata*. Bot. Gaz. 104(1): 171-177. Sept. 1942. Literature cited. 450 B652
- PERMANENT pastures for South Carolina. Clemson Agr. Col., S. C. Ext. Serv. Bul. 99 [rev.], 40 pp., illus. Apr. 1942. 275.29 So8F
By Joint Committee from Clemson College, Agricultural Extension Service, South Carolina Agricultural Experiment Station, and U. S. Soil Conservation Service.
- PORTER, R. H., and LEGGATT, C. W. A new concept of pure seed as applied to seed technology. Sci. Agr. 23(2): 80-103. Oct. 1942. References. 7 Sci2
- QUINBY, JOHN R., and KAPER, ROBERT E. Inheritance of mature plant characters in sorghum. Jour. Hered. 33(9): 323-327, illus. Sept. 1942. Literature cited. 442.8 Am3
Sorghum vulgare.
- ROBINSON, ROBERT R. The mineral content of various clones of white clover when grown on different soils. Amer. Soc. Agron. Jour. 34(10): 933-939. Oct. 1942. Literature cited. 4 Am34P
- SHAIN, S. S. Dinamika rosta kornevoi sistemy bobovykh i zlakovykh v chistem poseve i v smesi (Growth dynamics of the root system of leguminous and graminaceous grasses in pure sowings and in mixtures). Vest. Sel'sk. Nauk. Kormod. [Moskva] (1940) 5: 62-71, illus. Literature. 60.8 V63
Russian.
- SMITH, TOWNSEND J. Responses of biennial sweet clover to moisture, temperature, and length of day. Amer. Soc. Agron. Jour. 34(10): 865-876, illus. Oct. 1942. Literature cited. 4 Am34P
- SWANSON, ARTHUR F., and LAUDE, HILMER H. Sorghums for Kansas. Kans. Agr. Expt. Sta. Bul. 304, 63 pp., front., illus. Manhattan, Sept. 1942. 100 K13S
- TANFIL'EV, V. G. Kormovoe dostoinstvo dikorastushchikh trav severnogo Kavkaza (The fodder merit of freely growing wild grasses of N. Caucasus). Vest. Sel'sk. Nauk. Kormod. [Moskva] (1940) 5: 18-25. 1940. 60.8 V63
Russian. Many species listed.
- TERENOZHKIN, I. I. "Volgo-Akhtubinskaiâ" golubaiâ liutserna (The "Volga-Akhtubinsk" blue alfalfa). Vest. Sel'sk. Nauk. Kormod. [Moskva] (1940) 5: 72-75, illus. 60.8 V63
Russian.

- TKACHEV, A. D. Izuchenie khimicheskogo sostava tsav zimnikh rast'ishch Oirotii (Studying the chemical composition of the grasses of winter pasturelands in Oirotia). Vest. Selsk. Nauk. Kormod. [Moskva] (1940) 5: 36-40. Literature. 60.8 V63
Russian.
- TSATSENKIN, I. A. Tipologicheskii sostav estestvennykh zonam SSSR (Typological composition of natural hay-lands and pastures according to the native zones of USSR). Vest. Selsk. Nauk. Kormod. [Moskva] (1940) 4: 3-16, illus. (map) 60.8 V63
Russian.
- WARNER, J. D., and BLASER, R. E. Annual lespedeza for Florida pastures. Fla. Agr. Expt. Sta. Bul. 375, 22 pp., illus. Gainesville, Sept. 1942. 100 F66S
- WEIHING, RALPH M. Green and air-dry weights for determining hay yields of varieties of alfalfa. Amer. Soc. Agron. Jour. 34(10): 877-882. Oct. 1942. Literature cited. 4 Am34P
- ZAHLLEY, J. W. Soybean production in Kansas. Kans. Agr. Expt. Sta. Bul. 306, 31 pp., illus. Manhattan, Sept. 1942. 100 K13S
Revision of Bulletin 282.

OIL PLANTS

- CASTILLO V., ALONSO. Eucalyptus. Contribución al conocimiento del eucalipto y de sus esencias, en la Provincia del Tungurahua. Ecuador Univ. Cent. Inst. Bot. Bol. 1(1): 125-159. Jan. 1942. 451 Ec9
- CONDIT, IRA J. El olivo. Pan Amer. Union. Pub. Agr., no. 142/143, 46 pp., illus. Washington, Aug. 1942. 150.9 Ag8
Translated from English by María A. Ruisánchez Harvey.
- DILLMAN, ARTHUR C. Breeding flax resistant to rust. Oil, Paint, and Drug Rptr. 142(17): 3, 40B, illus. Oct. 26, 1942. 306.8 O15
- GOPINATH, D. M. A preliminary note on the sterility in flax (*Linum usitatissimum*). Current Sci. [India] 11(7): 286-287, illus. July 1942. 475 Sci23
- GÖRBITZ, ADALBERTO. El cultivo del ajonjolí. Agronomía [La Molina] 7(27): 25-30. 1942. 9.8 Ag83
Sesamum indicum.
- GUENTHER, ERNEST. The production of oil of limes. Amer. Perfumer and Essential Oil Rev. 44(11): 33-35, illus. Nov. 1942. 308.8 Am3
- ILANG-ILANG, nas Filipinas e em Porto Rico. Fazenda 37(2): 64-65, illus. Feb. 1942. 6 H11
Cananga odorata.
- KATZ, ALEXANDER. Coriander successfully grown in U. S. Amer. Perfumer and Essential Oil Rev. 44(11): 25-27, 73, illus. Nov. 1942. 308.8 Am3
- KIMBROUGH, W. D., MILLER, JULIAN C., and WILSON, W. F. Fertilizer results with tung trees and recommended cultural treatments. La. Agr. Expt. Sta. Bul. 352, 16 pp., illus. Baton Rouge, Aug. 1942. 100 L93
- SHAH, S. V., AIRAN, J. W., and REGE, A. V. Fatty oil from the fruit of *Martynia diandra* (N. O. Pedaliaceae). Current Sci. [India] 11(7): 291. July 1942. 475 Sci23

ORNAMENTALS

- ARNOLD, RALPH E. *Dendrobium biggibum*. Orchid Rev. 50(591/592): 144-145. Sept./Oct. 1942. 80 Or15
- ARNOLD, RALPH E. *Sophranitis violacea*. Orchid Rev. 50(591/592): 163-164. Sept./Oct. 1942. 80 Or15
- BALDWIN, GEORGE E. Practical hybridization. Amer. Orchid Soc. Bul. 11(6): 185-186. Nov. 1, 1942. 80 Am329
- BLANTON, FRANKLIN S., and HAASIS, FRANK A. Insect transmission of the virus causing narcissus mosaic. Jour. Agr. Res. 65(9): 413-419. Nov. 1, 1942. Literature cited. 1 Ag84J
- BLOSSFIELD, HARRY. Collecting Cattleya rex. Amer. Orchid Soc. Bul. 11(6): 204-207, illus. Nov. 1, 1942. 80 Am329
- CARR, LLOYD G. On the pollination of five North American orchids. Amer. Orchid Soc. Bul. 11(6): 203-204. Nov. 1, 1942. References. 80 Am329
- CASTLE, HEMPSTEAD, and NICKELL, L. G. The aerosol-hypochlorite technique for the sterilization of orchid seeds. Amer. Orchid Soc. Bul. 11(6): 200-202. Nov. 1, 1942. 80 Am329
- CHADWICK, LEWIS C. *Buxus sempervirens*. Amer. Nurseryman 76(10): 6. Nov. 15, 1942. 80 Am371
- COOPER, EDWARD. *Monomeria barbata*. Orchid Rev. 50(591/592): 145-147. Sept./Oct. 1942. 80 Or15
- COOPER, EDWARD. *Stanhopea insignis* var. Orchid Rev. 50(591/592): 161-162. Sept./Oct. 1942. 80 Or15
- DOIG, ROBERT. *Laelia anceps*. Amer. Orchid Soc. Bul. 11(6): 182-185, illus. Nov. 1, 1942. 80 Am329
- DUNSTER, B. P. *Rhododendron sperabile*. Gard. Chron. 112(2910): 123. Oct. 3, 1942. 80 G162
- EIGSTI, ORIE J., and TAYLOR, HERBERT. The induction of polyploidy in phlox by colchicine. Okla. Acad. Sci. Proc. (1942) 22: 120-122, illus. Literature cited. 500 Ok42
- FAULKNER, R. P. *Atriplex halimus*. Gard. Chron. 112(2911): 133. Oct. 10, 1942. 80 G162
- GRAHAM, ARCHIBALD. *Erica vagans*. Gard. Chron. 112(2908): 102, illus. (p. 99). Sept. 19, 1942. 80 G162
- HYBRID rose understock resistant to nematode. Amer. Nurseryman 76(8): 21. Oct. 15, 1942. 80 Am371
- Rosa multiflora* x *R. blanda* developed by T. J. Maney.
- JENNISON, MRS. H. A. Keeping garden flowers fresh. N. Y. Bot. Gard. Jour. 43(514): 252-254. Oct. 1942. 451 N48J
- JONES, ROBERT E. Chromosome number in the progeny of triploid *Gladiolus* with special reference to the contribution of the triploid. Md. Univ. Abs. Theses 39(13): 18-19. Sept. 1942. 241.8 M36
- KNOWLTON, CLARENCE H. Fasciation in *Lilium canadense*. Rhodora 44(526): 407. Oct. 1942. 450 R34
- McCLELLAN, WILBUR D. Control of powdery mildew of roses in the greenhouse. N. Y. (Cornell) Agr. Expt. Sta. Bul. 785, 39 pp., illus. Ithaca, June 1942. References. 100 N48C
- Sphaerotheca pannosa* var. *rosae*.
- MARTH, PAUL C. Effects of growth-regulating substances on shoot development of roses during common storage. Bot. Gaz. 104(1): 26-49, illus. Sept. 1942. Literature cited. 450 B652

- PESEL, LOUISA. Iris in 1942. Gard. Illus. 63(3283): 807. Oct. 1942. 80 G169
A critical survey of some new seedlings.
- PIRONE, PASCAL P. Chrysanthemum diseases curbed by propagating practices. N. J. Agr. Expt. Sta. Nursery Dis. Notes 15(4): 13-16. Oct. 1942. 464.9 N46
- PRING, GEORGE H. Reintroduction of Cattleya rex. Amer. Orchid Soc. Bul. 11(6): 208-209, illus. Nov. 1, 1942. 80 Am329
- SLADE, G. HERMON. An extraordinary hybrid. Austral. Orchid Rev. 7(3): 47, illus. Sept. 1942. 80 Au73
Cirrhopetalum x Louis Sander.
- STOUT, ARLOW B. Daylilies of Chinese origin. N. Y. Bot. Gard. Jour. 43(514): 237-243, illus. Oct. 1942. 451 N48J
- VAN DERSAL, WILLIAM R. Ornamental American shrubs. 288 pp., col. front., plates. New York, Oxford University press, 1942. 455 V28
- VAN RENSSSELAER, MAUNSELL, and McMINN, HOWARD E. Ceanothus. 308 pp., illus. Santa Barbara, Calif., Santa Barbara botanic garden, 1942. 452.3 V26
Pt. I. Ceanothus for gardens, parks, and roadsides, by M. Van Rensselaer. Pt. II. A systematic study of the genus Ceanothus, by H. E. McMinn.
- WEDDELL, D. J. Damage to catalpa due to recreational use. Jour. Forestry 40(10): 807, illus. Oct. 1942. 99.8 F768
Cankers caused by Hypoxylon rubiginosum appear as a result of extraction of catawba worms by local fisherman.
- WYMAN, DONALD. Euonymus. Arnoldia 2(8/9): 41-49, illus. Oct. 20, 1942. 451 Ar6Ba

POTATO

- BALD, JOHN G. Potato virus diseases, the scientist and the farmer. Fruit World & Market Grower 42(6): 17-18; (7): 17-18. June 5, July 5, 1941. 80 F948
- BREAKING the dormancy of potatoes. Austral. Council Sci. & Indus. Res. Jour. 15(3): 253. Aug. 1942. 514 Au72J
- BURKHOLDER, WALTER H. Diagnosis of the bacterial ring rot of the potato. Amer. Potato Jour. 19(10): 208-212. Oct. 1942. Literature cited. 75.8 P842
- COOK, HAROLD T., and HOUGHLAND, GEOFFREY V. C. The severity of potato scab in relation to the use of neutralized and one-third neutralized fertilizers. Amer. Potato Jour. 19(10): 201-208. Oct. 1942. Literature cited. 75.8 P842
- JENKINS, JOHN M., JR. The performance of certain potato varieties in South Carolina in 1942. Amer. Potato Jour. 19(10): 213-216. Oct. 1942. 75.8 P842
- MARTINEZ MORENO, JOSÉ I. Principales enfermedades que se presentan en el cultivo de la papa en Panamá. Rev. de Agr. y Com. [Panama] 1(1): 47-53, illus. Sept. 1941. Literature cited. 8 R3291
- MUJICA R., FERNANDO. Nomina de las enfermedades y pestes de la papa cuya existencia se ha comprobado en el país. Chile. Dept. de Sanid. Veg. Bol. 1(1): 70-72. July 1941. 464.9 C432B

- PERRET, CLAUDE. Le probleme actuel de la degenerescence des pommes de terre. Rev. Agr. de la Nouvelle-Calédonie 1942: 4788-4796. Aug. 1942. 25 N43
- RODRIGUEZ L.Z., LUIS. La alternariosis de la patata. Ecuador Univ. Cent. Inst. Bot. Bol. 1(1): 85-124, 7 pl. Jan. 1942. Bibliographical footnotes. 451 Ec9
Alternaria solani.
- RODRIGUEZ L.Z., LUIS. La anguilulosis de las papas. Ecuador Univ. Cent. Inst. Bot. Bol. 1(1): 160-168, illus. Jan. 1942. 451 Ec9
Caconema radicicola (Greef) Cobb, Heterodera radicicola (Greef) Müller.
- UPHOE, JOHANNES C. T. El retoñamiento de los tubérculos inactivos. Hacienda 37(11): 460, illus. Nov. 1942. 6 H11

RUBBER PLANTS

- BANGHAM, WALTER N. Cultivo de Hevea. Rev. de Agr. [Costa Rica] 16(9): 391, 393, 395-397, 399-402. Sept. 1942. 8 Es1
- PRODUTOS estratégicos: o guaiule. Fazenda 37(2): 66, illus. Feb. 1942. 6 H11
- RICHARDSON, ARNOLD E. V. The utilization of rubber-bearing plants. Austral. Jour. Sci. 5(1): 11-15, Aug. 21, 1942. 475 Au72
- SOKOLOFF, V. P., and KLOTZ, LEO J. Accumulation of rubber in species of Evonymus. Citrus Leaves 22(10): 1-2, illus. Oct. 1942. 80 C492
Largely a review of Factors Determining Accumulation of Rubber in Evonymus, Their Translation of Vnutrennie Faktory Guttaperchenskoplennia... by G. G. Bose and B. M. Maistrovaia.
- SORENSEN, H. G. Crown budding for healthy Hevea. U. S. Off. Foreign Agr. Relat. Agr. in the Americas 2(10): 191-193, illus. Oct. 1942. 1 F752A
Resistance to South American leaf blight.
- TRUMBULL, H. L. Growing rubber in North America. Indus. and Engin. Chem. 34(11): 1328-1335, illus. Nov. 1942. Literature cited. 381 J325
Includes guayule, rabbit bush, and Cryptostegia.
- YARHAM, E. R. The tree that grows your tires. Forest & Outdoors [Montreal] November 1942, pp. 327-328, 345, illus. 399.8 C16
How the British Empire began its vast trade in rubber tree plantations.

SUGAR PLANTS

- ARCHENEAUX, GEORGE. Some varietal stalk characters of importance in the mechanical harvesting of sugarcane. Sugar Bul. 21(3): 17-19. Nov. 1, 1942. 65.9 Am32
- BAINER, ROY. Use of sheared beet seed on the increase. Spreckels Sugar Beet Bul. 6(11): 65, 67-68, illus. Nov. 1942. 66.8 Sp7
- CAMERON, C., and WILLIAMS, C. HOLMAN B. The Cameron-Williams system for cane cultivation in British Guiana. Brit. Guiana. Dept. Agr. Sugar Bul. 11, pp. 54-57, plates. 1942. 65.9 B773
- DICKSON, S. W. Experiments in the growing of Poona pea amongst sugar cane. Queensland Soc. Sugar Cane Technol. Proc. (1941). 12: 215-217. 65.9 Q332

- LEACH, LYSLE D. Treatment of sheared beet seed. Spreckels Sugar Beet Bul. 6(11): 65, 68, illus. Nov. 1942. 66.8 Sp7
- RAMOS NUÑEZ, GUILLERMO. Relación de los trabajos efectuados en el departamento de genética de caña, diciembre 28 de enero 31 de 1942. Agr. y Ganad. [Bogotá] 13(30/31): 991-1018, illus. Aug./Dec. 1941. 9.4 In22
- SORNAY, A. de. Estimation of cane yields by means of random rows and stools. Rev. Agr. de l'Ile Maurice 21(3): 107-113, illus. May/June 1942. References. 24 M44
- STEVENSON, M. G. C. The effect of different localities on the growth of sugarcane varieties. So. African Sugar Jour. 26(9): 433, 435, 437. Sept. 1942. 65.8 So8
- WILLIAMS, C. HOLMAN B., and CAMERON, C. Field experiments with sugar cane, XI. Brit. Guiana. Dept. Agr. Sugar Bul. 11, pp. 1-37, illus. 1942. 65.9 B773
- WILLIAMS, C. HOLMAN B. The variety and fertilizer position of the sugar industry, VIII. Brit. Guiana. Dept. Agr. Sugar Bul. 11, pp. 47-53, illus. 1942. 65.9 B773

TOBACCO

- ANDERSON, PAUL J. Control of blue mold of tobacco by a new spray. Science 96(2496): 409. Oct. 30, 1942. 470 Sci2
- SMITH, HAROLD H., and SMITH, CLAUDE R. Alkaloids in certain species and interspecific hybrids of Nicotiana. Jour. Agr. Res. 65(8): 347-359, illus. Oct. 1, 1942. Literature cited. 1 Ag84J

TREES AND WOODY PLANTS

- AFANASIEV, MICHEL, and CRESS, M. Changes within the seeds of Juniperus scopulorum during the processes of after-ripening and germination. Jour. Forestry 40(10): 798-801. Oct. 1942. Literature cited. 99.8 F768
- AFANASIEV, MICHEL. Propagation of trees and shrubs by seed. Okla. Agr. Expt. Sta. Cir. C-106, 43 pp., illus. Stillwater, Oct. 1942. 100 Ok4
- BANNAN, MARVIN W. Notes on the origin of adventitious roots in the native Ontario conifers. Amer. Jour. Bot. 29(8): 593-598, illus. Oct. 1942. Literature cited. 450 Am36
- BATSON, FERRIS S. An illustrated guide to identification and landscape uses of Mississippi native shrubs. Miss. Agr. Expt. Sta. Bul. 369, 61 pp., illus. (incl. map) State College, July 1942. 100 M69
- BIG TREES: King chestnut. Amer. Forests 48(11): 484, illus. Nov. 1942. 99.8 F762
- Castanea dentata near Lowe's Creek in Sevier County, Tennessee.
- BLIGHT-FREE chestnuts still are sought. South. Florist and Nurseryman 54(5): 14. Oct. 30, 1942. 80 So86
- D. F. Jones suggests methods for planting nuts from trees that are still healthy.
- CROIZAT, LEON. Identification of Japanese maples. Amer. Nurseryman 76(9): 5-7, illus. Nov. 1, 1942. 80 Am371
- DIEHL, WILLIAM W. Sprouting of sumac in dry storage. Science 96(2498): 448-449. Nov. 13, 1942. 470 Sci2

- DOBBS, C. G. A false-ring pattern in larch. *Nature* [London] 150(3804): 377-379. Sept. 26, 1942. 472 N21
- FRANCO do AMARAL, JULIO. Fungo (*Cylindrocladium*) atacando mudinhas de Eucalyptus. *Biológico* 8(5): 148. May 1942. 442.8 B529
- GLADWIN, HAROLD S. Methods and instruments for use in measuring tree-rings. 13 pp., x.pl. Globe, Ariz., Priv. print. for Gila pueblo, 1940. (Medallion papers, no. xxvii) 463.36 G45
- GLADWIN, HAROLD S. Tree-ring analysis; methods of cultivation. 63 pp., incl. tables, diagrs. Globe, Ariz., Priv. print. for Gila pueblo, 1940. (Medallion papers, no. xxviii) 463.36 G45T
- GRAVES, ARTHUR H. Breeding work toward the development of a timber type of blight-resistant chestnut: Report for 1941. *Amer. Jour. Bot.* 29(8): 622-626, illus. Oct. 1942. Literature cited. 450 Am36
- GROBER, SAMUEL. The botanical, erosion control, and economic significance of white poplar in Maryland. *Md. Univ. Abs. Theses* 39(13): 17-18. Sept. 1942. 241.8 M36
- GROVER, FREDERICK O. The phyllotaxy of catalpa. *Rhodora* 44(527): 414-416. Nov. 1942. 450 R34
- LEWIS, RUSSELL. Unusual bark thickness on giant sequoias. *Yosemite Nature Notes* 21(11): 92-94, illus. Nov. 1942. 409.6 Y8
- LUDBROOK, WALLIS V. The effects of various concentrations of boron on the growth of pine seedlings in water culture. *Austral. Inst. Agr. Sci. Jour.* 8(3): 112-114. Sept. 1942. References. 23 Au74
Experiments with *Pinus radiata*.
- McINTYRE, H. L. White pine blister rust control policies in New York state. *Jour. Forestry* 40(10): 782-785. Oct. 1942. 99.8 F768
- McKELLAR, A. D. Ice damage to slash pine, longleaf pine, and loblolly pine plantations in the Piedmont section of Georgia. *Jour. Forestry* 40(10): 794-797. Oct. 1942. 99.8 F768
- MATZKE, EDWIN B., and HULBARY, ROBERT L. An analysis of the wood of the three commercial species of white pine. *Torrey Bot. Club. Bul.* 39(8): 573-582, illus. Nov. 1942. Literature cited. 451 T63B
- MILLER, PIERRE A. Disease problems of ornamental trees in southern California. *Arborist's News* 7(11): 81-84, illus. Nov. 1942. 99.8 Ar14
- ROGER, J. G. The common larch at high altitudes. *Scot. Forestry Jour.* 55(2): 83-84, illus. Oct. 1941. 99.9 R81T
- SNOW, ALBERT G., JR. Sex and vegetative propagation. *Jour. Forestry* 40(10): 807-808. Oct. 1942. 99.8 F768
Experiments with red maple.
- TEHON, LEO R. Diseases of trees. (cont.) *Amer. Nurseryman* 76(8): 24-25; (9): 22-23; (10): 28-29. Oct. 15, Nov. 1, 15, 1942. 80 Am371
Elgetol and apple blotch control. Fungous conks are as old as their layers. Ring spot an apricot virus disease. Coryneum shot-hole disease on *Prunus*. Root disease of pine saplings. Chestnut blight in California. Control damping-off of longleaf pine.

TROPICAL PLANTS

- ALVARADO, JUAN A. El agotamiento del humus en el terreno y su influencia sobre ciertas clases de podredumbres de la raíz. (concl.) Café de El Salvador 12(141): 523-534, illus. Sept. 1942. 68.28 C112
- ARIAS, TOMÁS. Ensayo sobre el cultivo y el beneficio del café arábigo. III. Hacienda 37(11): 451-454, illus. Nov. 1942. 6 H11
Includes Enemigos de cafeto.
- DRUMMOND, OCTAVIO A. Seca dos galhos da figueira. Ceres (Minas Gerais) 3(15): 162-164, 2 pl. Nov./Dec. 1941. 9.2 C332
Phomopsis cinerascens. English summary.
- FRANCO do AMARAL, JULIO. Ferrugem (Uromyces) da mandioca. Biológico 8(5): 148. May 1942. 442.8 B529
U. manihotus.
- GATTONI, LUIS A. Chirimoya. Rev. de la Cámara de Agr. Primera Zona [Ecuador] 5(34): 319-325, illus. June 1942. 9.5 Ec96
- GONZENBACH, CARLOS. Quinoa (Chenopodium quinoa). Ecuador Univ. Cent. Inst. Bot. Bol. 1(1): 66-84, illus. Jan. 1942. 451 Ec9
- GUHA-THAKURTA, A., and DUTT, B. K. Vegetative propagation of mango by treatment with high concentration auxin. Bose Res. Inst., Calcutta. Trans. (1939/41) 14: 135-140, pl. xviii. [1942] References. 513 B65
- HAYWARD, WYNDHAM. Guava is proved vitamin C king. Fla. Grower 50(11): 12. Nov. 1942. 80 F6622
Refers to paper "The vitamin C content of Psidium guajava," by Guy Waddington and F. M. Crist, given at 1942 meeting of Florida State Horticultural Society.
- IMPROVED mango is minus fiber. Fascell variety heavy bearer and disease resistant. Fla. Grower 50(11): 15, illus. Nov. 1942. 80 F6622
Development of Michael Fascell, Miami nurseryman and propagator.
- JOHNSTON, JOHN R. Enfermedades del banano. Rev. de Agr. y Com. [Panama] 11(8): 15-16. Apr. 1942. 8 R3291
- JOLLY, A. L. Uniformity trials on estate cacao fields in Grenada, B. W. I. Trop. Agr. [Trinidad] 19(9): 167-174. Sept. 1942. 26 T754
- KAR, BAIKUNTHA K., and BANERJEE, HIRENDA K. Studies in the physiology of some Indian fruits. I-II. Bose Res. Inst., Calcutta. Trans. (1939/41) 14: 91-110, 171-182. [1942] Literature cited. 513 B65
I. The available substrates in a developing fruit of guava and their behaviour under conditions of storage and ethylene treatment, by B. K. Kar and H. K. Banerjee; II. Catalase and oxidase activity in Mangifera indica, by H. K. Banerjee and B. K. Kar.
- KARLING, JOHN S. Collecting chicla in the American tropics. 3. Evils of the present method of collecting chicla. Torreya 42(4): 105-113, illus. July/Aug. 1942. Literature cited. 450 T63
- KARLING, JOHN S. The response of Achras zapota in latex yield to wounding by the ibidem method of tapping. Torrey Bot. Club. Bul. 69(8): 553-560, illus. Nov. 1942. Literature cited. 451 T63B
- KAY, ELIZABETH. Annatto (Bixa orellana). Herbarist 7: 28-33. 1941. Literature cited. 80 H41

- MACHADO S., ALBERTO. Fomento de la industria cafetera en el Valle del Cauca. [Colombia] Facult. Nac. Agron. Rev. (año 4) 5(19): 488-552. 1942. References. 9.4 C717
- McCLELLAND, T. V. Aumento de la producción de café mediante el uso de abonos. Costa Rica. Inst. de Defensa del Café Rev. 12(92): 317-319. June 1942. 68.28 C82
- POSNETTE, A. F. Natural pollination of cocoa, *Theobroma leiocarpa*, Bern., on the Gold Coast. II. Trop. Agr. [Trinidad] 19(10): 188-191. Oct. 1942. References. 24 T754
- SOME general information on the selection and propagation of the tea plant. Indian Tea Assoc. Tocklai Expt. Sta. Memo. 15, 15 pp., illus., fold. diagr. Calcutta, June 12, 1942. 68.19 T562M
- UPHOF, JOHANNES C. T. A atemoia: híbrida da chirimoia e da eachiman. Fazenda 37(2): 70, illus. Feb. 1942. 6 H11
- WIEHE, P. O. Quelques anomalies du cocotier. Rev. Agr. de l'Île Maurice 21(3): 129-131, pl. ii-iii. May/June 1942. Bibliography. 24 M44

VEGETABLES

- ANDRUS, C. F., and others. Collar rot resistance in tomatoes. Jour. Agr. Res. 65(7): 339-346, illus. Oct. 1, 1942. Bibliographical footnotes. 1 Ag84J
- George B. Reynard, Hans Jorgensen, and Jack Eades, joint authors.
- BOUQUET, ARTHUR G. B. Boron for preventing breakdown in beets. Canning Age 23(12): 633-635, illus. Nov. 1942. 286.83 C165
- From an Oregon technical bulletin.
- BRAUN, ALBERT E. Resistance of watermelon to the wilt disease. Amer. Jour. Bot. 29(8): 683-684. Oct. 1942. Literature cited. 45Q Am36
- BRYANT, L. H., and MORRISON, FRANK R. Composition of soya beans grown in New South Wales. Austral. Inst. Agr. Sci. Jour. 8(3): 117-118. Sept. 1942. References. 23 Au74
- CROSS-fertilization in Brassicas. Agriculture (Jour. Min. Agr. Gt. Brit.) 49(2): 116-117. Sept. 1942. 10 G79J
- DOWN, E. E., and THAYER, J. W., JR. Plot technic studies with navy beans. Amer. Soc. Agron. Jour. 34(10): 919-922. Oct. 1942. 4 Am34P
- DRUMMOND, OCTAVIO A. Doenças das sementeiras da cebola. Ceres (Minas Gerais) 3(16): 251-258, 2 pl. Jan./Feb. 1942. Literature cited. 9.2 C332
- GRAY, S. G. Increased earliness of flowering in lettuce through vernalization. Austral. Council Sci. & Indus. Res. Jour. 15(3): 211-212. Aug. 1942. 514 Au72J
- GREAT BRITAIN. MINISTRY OF AGRICULTURE AND FISHERIES. Manuring commercial vegetable crops in war time. [Gt. Brit.] Min. Agr. and Fisheries. Growmore Bul. 6, rev. ed., 12 pp. London, Aug. 1942. 10 G79Gro
- HOPKINS, JOHN C. F., and PARDY, MARIE H. Diseases of fruit, flowers and vegetables in southern Rhodesia. 6. Virus diseases of cabbages and cauliflowers. Rhodesia Agr. Jour. 39(5): 376-383, 3 pl. Sept./Oct. 1942. References. 24 R34

- KIMBROUGH, WILLIAM D., and BELL, MARION F. Internal breakdown of sweet potatoes due to exposure to cold. La. Agr. Expt. Sta. Bul. 354, 9 pp., illus. Baton Rouge, Oct. 1942. Bibliography. 100 L93
- KOCH, L. W. Diseases of greenhouse cucumbers. Canada. Dept. Agr. Farmers' Bul. 112, 12 pp., illus. July 1942. 7 C16F
- LIVINGSTON, J. E. Vegetable diseases in Nebraska. Nebr. Univ. Agr. Ext. Serv. Ext. Cir. 1801, 36 pp., illus. Lincoln [1942] 275.29 N272Ex
- MAGEE, CHARLES J., MORGAN, W. L., and JOHNSTON, A. N. Control of spotted wilt of tomatoes. Austral. Inst. Agr. Sci. Jour. 8(3): 115-117. Sept. 1942. References. 23 Au74
- MULLISON, WENDELL R. Certain aspects of the nutrition of tomato seedlings in sand culture. Ind. Acad. Sci. Proc. (1941) 51: 94-99. June 1942. Bibliography. 500 In2
- MYERS, CHARLES E. The Penn State Balhead cabbage: some problems encountered in its development. Pa. Agr. Expt. Sta. Bul. 430, 52 pp., illus. State College, Aug. 1942. 100 P381
- OYLER, ENID, and READ, W. H. A stem rot of tomato caused by *Didymella lycopersici*. Gard. Chron. 112(2910): 120-122, illus. Oct. 3, 1942. 80 G162
- SELMAN, IRESON W. The relation between mosaic infection and yield reduction in glasshouse tomatoes. Jour. Pomol. and Hort. Sci. 20(1/2): 49-58. Aug. 1942. References. 80 J825
- SILBERSCHMIDT, KARL, and NOBREGA, N. R. Notas sobre uma doença de virus em feijão de porco (*Canavalia ensiformis*, D. C.) e outra em feijão comum (*Phaseolus vulgaris* L.) Biológico 8(5): 129-133, pl. xiii-xiv. May 1942. Bibliographical footnotes. 442.8 B529 English summary.
- SMITH, FRANCIS L. Red kidney beans in California. Calif. Agr. Expt. Sta. Bul. 669, 21 pp., illus. Berkeley, Aug. 1942. Literature cited. 100 C12S
- SNYDER, WILLIAM C. Peas and *Ascochyta* blight. (concl.) Seed World 52(8): 30-33. Oct. 16, 1942. 61.9 Se52
- THOMAS, PERCY T., and CRANE, MORLEY B. Genetic classification of Brassica crops. Nature [London] 150(3806): 431, illus. Oct. 10, 1942. Bibliographical footnotes. 472 N21
- WADE, BRYAN L. Wando pea has that "something extra." South. Seedsman 5(11): 7, 31, 34, illus. Nov. 1942. 61.8 So8
High quality plus cold tolerance makes pea valuable as home garden type and as parent in breeding projects.
- WARE, L. M. Increasing fertility in the South. Market Growers Jour. 71(4): 308, 322, illus. Oct. 1, 1942. 6 M34
Results with potatoes, beans and turnips.
- ZIMMERLEY, H. H. Fertilization and green manure practices for snap beans and spinach. Natl. Joint Com. Fert. Appl. Proc. (1941) 17: 114-115, processed. [1942] 57.9 N216

SEE ALSO Potato

SOILS AND FERTILIZERS

- BODMAN, G. B. Nomograms for rapid calculation of soil density, water content, and total porosity relationships. Amer. Soc. Agron. Jour. 34(10): 883-893. Oct. 1942. Literature cited. 4 Am34P
- BROWN, IRVIN C., and THORP, JAMES. Morphology and composition of some soils of the Miami family and the Miami catena. U. S. Dept. Agr. Tech. Bul. 834, 55 pp. Sept. 1942. Literature cited. 1 Ag84Te
- COLEMAN, RUSSELL. Utilization of absorbed phosphate by cotton and oats. Soil Sci. 54(4): 237-246, illus. Oct. 1942. References. 56.8 So3
- COLLINS, EMERSON R., and SKINNER, JOSHUA J. Effect of dolomitic limestone on soils and crops when used as a neutralizing agent in complete fertilizers. Amer. Soc. Agron. Jour. 34(10): 894-901. Oct. 1942. Literature cited. 4 Am34P
- CROWTHER, E. M. Fertilizer policy on the farm. Agriculture (Jour. Min. Agr. Gt. Brit.) 49(2): 68-79. Sept. 1942. 10-G79J
- DAVIS, W. A., and others. Soil survey, Warren county, North Carolina. U. S. Bur. Plant Indus. [Soil Survey Rpt.] ser. 1938, no. 2, 37 pp., map. July 1942. 1 So32F
- Kenneth V. Goodman, Anton J. Vessel, and W. J. Moran, joint authors. In cooperation with North Carolina Agricultural Experiment Station and North Carolina Department of Agriculture.
- EDLEFSEN, N. E., ANDERSON, ALFRED B. C., and MARCUM, W. B. Field study of the response of the electrical resistance of 2- and 4-electrode plaster of paris blocks to variations in soil moisture. Soil Sci. 54(4): 275-279, illus. Oct. 1942. Bibliographical footnotes. 56.8 So3
- GYSEL, LESLIE W. The forest humus layers of Ohio. Ohio State Univ. Abs. Doctoral Diss. (1941/42) 38: 167-175. 1942. Bibliographical footnotes. 241.8 Oh3
- HARVEY, E. W., and ROHNER, L. V. Chemical properties of various commercial superphosphates before and after ammoniation. Amer. Fert. 97(8): 5-6, 24, 26. Oct. 10, 1942. Literature cited. 57.8 Am3
- HOLMES, ROBERT S., and HEARN, WILLIAMSON E. Chemical and physical properties of some of the important alluvial soils of the Mississippi drainage basin. U. S. Dept. Agr. Tech. Bul. 833, 81 pp., illus. Oct. 1942. Literature cited. 1 Ag84T
- McMARTIN, A. Experiments on the composting of sugarcane trash. So. African Sugar Jour. 26(9): 445, 447, 449, 451, 453. Sept. 1942. 65.8 So8
- MARYLAND. UNIVERSITY. DEPTS. OF AGRONOMY AND HORTICULTURE. Accumulating soil nitrogen by manure and cover crops. Md. Univ. [Agr.] Ext. Cir. 139, 12 pp., illus. College Park, Aug. 1942. 275.29 M36L
- MILES, DIMO. Khimcheski izsledvaniia vusku neкои novi osobenosti na pochveniia khumus i tsveta na pochvata (Chemische untersuchungen über einige neuen eigentümlichkeiten des bodenhumus und der bodenfarbe). Spis. Zeml. Opitni. Inst. B'lgariia (Rev. Insts. de Rech. Agron. en Bulgarie) 12(1/2): 3-47, tables. 1942. 106.3 R32
- German summary.

- MITCHELL, J., MOSS, H. C., and RIECKEN, F. F. Soil survey of Mortlach, Chaplin, and Lake Johnstone area, including Rural municipalities nos. 132, 133, 134, 162, 163, and 164. Saskatchewan Univ. Col. Agr. Soil Survey Rpt. 11, 48 pp., illus., maps. Aug. 1942. 56.9 Sa7
- OLSEN, STIRLING R. Crop response to potash fertilization on important Ohio soils in relation to plant available potassium. Ohio State Univ. Abs. Doctoral Diss. (1941/42) 38: 211-219. 1942. 241.8 Oh3
- PADEN, W. R. Relation of liming to efficiency of fertilizers. Com. Fert. 65(5): 22, 24-25. Nov. 1942. 57.8 C73
- PALLMANN, H. Grundzüge der bodenbildung. Schweiz. Landw. Monatsh. 20(6/7): 143-166, illus. June/July 1942. 17 Sch93
- PARBERRY, N. H., and SWABY, R. J. The efficiency of organic materials in supplying nitrogen to crops. Agr. Gaz. N. S. Wales 53(8): 357-361, illus. Aug. 1, 1942. 23 N472
- PARKS, ROBERT Q. Possible mechanisms of boron fixation in soils. Part I. Chemical. Ohio State Univ. Abs. Doctoral Diss. (1941/42) 37: 167-176. 1942. 241.8 Oh3
- PEARSON, C. S., and others. Soil survey, Seneca county, New York. U. S. Bur. Plant Indus. [Soil Survey Rpt.] ser. 1936, no. 14, 68 pp., 6 pl., map. Apr. 1942. 1 So32F
- R. B. Child, W. E. Kennedy, Warren Huff, and C. E. Lawrence, joint authors.
In cooperation with Cornell University. Agricultural Experiment Station.
- PRINCE, ARTHUR L., and TIEDJENS, VICTOR A. Water solutions of ordinary mixed fertilizers for use in starting and side-dressing plants. N. J. Agr. Expt. Sta. Cir. 449, 4 pp. New Brunswick, Sept. 1942. 100 N46S
- PUFFELES, M. Factors affecting the determination of pH of some Mediterranean soils. Amer. Soc. Agron. Jour. 34(10): 954-955, illus. Oct. 1942. 4 Am34P
- REYNOLDS, E. B. Shortage of nitrogen fertilizers. Amer. Fert. 97(8): 10-11. Oct. 10, 1942. 57.8 Am3
- SCARSETH, G. D., and others. The use of plant tissue tests in fertility research in Indiana. Natl. Joint Com. Fert. Appl. Proc. (1941) 17: 35-45, processed. [1942] 57.9 N216
- Harry L. Cook, A. J. Ohlrogge, M. T. Vittum, Mack Drake, H. E. Jones, and Joe E. Steckel, joint authors.
- SCHLENKER, FRANK S. Availability of adsorbed ions to plants growing in quartz sand substrate. Soil Sci. 54(4): 247-251, illus. 56.8 So3
- SHEARIN, A. E., MADISON, S. V., and COLVIN, W. S. Soil survey, Newport and Bristol counties, Rhode Island. U. S. Bur. Plant Indus. [Soil Survey Rpt.] ser. 1936, no. 18, 85 pp., 2 pl., map. Aug. 1942. 1 So32F
- In cooperation with Rhode Island State College, Agricultural Experiment Station.
- SHERMAN, G. DONALD, McHARGUE, J. S., and HODGKISS, W. S. Determination of active manganese in soil. Soil Sci. 54(4): 253-257. References. Oct. 1942. 56.8 So3

- SLATER, C. S. A fertilizer triangle for small whole number fertilizer ratios. Amer. Soc. Agron. Jour. 34(10): 955-957, illus. Oct. 1942. 4 Am34P
- SOMNEDECKER, GLENN. Plowing goes underground. New method revolutionizes American farming, leaving stubble standing to reduce wind and water erosion. Sci. News Letter 42(19): 298-300, illus. Nov. 7, 1942. 470 Sci24
- SRREENIVASAN, P. S. The influence of packing on the movement of moisture through the soil. Current Sci. [India] 11(7): 287-288, illus. July 1942. 475 Sci23
- STÖCKLI, A. Die bedeutung des kompostes zur erhaltung und steigerung der bodenfruchtbarkeit. Schweiz. Landw. Monatsh. 20(4, 5): 115-122, 133-138. Apr., May 1942. 17 Sch93
- STOLLER, B. B. Mushroom compost. Market Growers Jour. 71(4): 308, 322. Oct. 1, 1942. 6 M34
- VINE, H., THOMPSON, H. A., and HARDY, FREDERICK. Studies on aeration of cacao soils in Trinidad. I. Trop. Agr. [Trinidad] 19(9): 175-180. Sept. 1942. References. 26 T754
- VISWA NATH, B. Recent developments in the science of plant and animal nutrition and their significance to national nutrition and health. 31, iii pp. [Delhi, Cambridge Printing works, 1941?] Bibliography, iii pp. at end. 463.34 V82R
- Presidential address to the Section of Chemistry and Biology, 10th annual meeting of National Academy of Science, Feb. 1941.
- WAR-TIME fertilizers for New Jersey. N. J. Agr. Expt. Sta. Cir. 452, 8 pp., illus. New Brunswick, Oct. 1942. 100 N46S
- WILLIAMS, R. F., and MARSHALL, T. J. Determination of the permanent wilting percentage of soils. Austral. Inst. Agr. Sci. Jour. 8(3): 109-111, illus. Sept. 1942. References. 23 Au74
- WOOD, T. B. A course of practical work in agricultural chemistry for senior students. Ed. 3, rev. and enl. by H. H. Nicholson, 61 pp. Cambridge, Univ. press, 1941. 395 W35
- Book is based upon experience in teaching at University of Cambridge. It includes soil sampling and analysis, estimation of soil constituents, examination of fertilizers, etc. New chapters appended to the third edition are on examination of soil in the field, the newer compound fertilizers and the qualitative examination of unknown fertilizers and lime.
- WYATT, F. A., and others. Soil survey of Blackfoot and Calgary sheets. Alberta Univ. Col. Agr. Bul. 39, 119 pp., 9 pl., maps. Edmonton, July 1942. 101 Al1B
- J. D. Newton, W. E. Bowser, and W. Odynsky, joint authors. Appendix by John A. Allan.

AUTHOR INDEX

	<u>Page</u>		<u>Page</u>
Abraham, A.....	D-156	Bitancourt, A. A.....	D-164
Adams, Frank.....	D-162	Blair, W. M.....	D-157
Afanasiev, Michel	D-172	Blaney, H. F.....	D-159
Airan, J. W.....	D-168	Blanton, F. S.....	D-169
Albrecht, W. A.....	D-158	Blaser, R. E.....	D-166, D-168
Aldrich, S. R.....	D-160	Blossfield, Harry.....	D-169
Alexopoulos, C. J.....	D-150	Bodman, G. B.....	D-177
Allan, H. H.....	D-146	Boiteux, Henrique.....	D-145
Allan, J. A.....	D-179	Boivin, Bernard.....	D-152
Allen, C. K.....	D-147	Bouquet, A. G. B.....	D-175
Allison, F. E.....	D-156	Bousset, Maurice.....	D-150
Alvarado, J. A.....	D-174	Bowser, P. H.....	D-154
Anderson, A. B. C.....	D-177	Bowser, W. E.....	D-179
Anderson, D. A.....	D-150	Boye, C. L.....	D-156
Anderson, P. J.....	D-172	Braun, A. E.....	D-175
Andrade, A. C. de.....	D-162	Breckenridge, R. P.....	D-145
Andrus, C. F.....	D-175	Briggs, L. H.....	D-155
Arceneaux, George.....	D-171	Brittingham, W. H.....	D-166
Arentsen S., S. T.....	D-165	Brown, I. C.....	D-177
Arias, Tomás.....	D-174	Brown, J. R.....	D-147
Arnold, R. E.....	D-169	Brown, L. N.....	D-162
Ashby, Eric.....	D-153	Brown, M. S.....	D-162
Augusto, irmão.....	D-152	Brown, R. W.....	D-154
Avery, G. S., jr.....	D-160	Brown, S. M.....	D-164
Avila de Araujo, Anacreonte...	D-166	Brunson, A. M.....	D-156, D-162
Ayyangar, G. N. R.....	D-156	Bryant, L. H.....	D-175
		Burke, Frederick.....	D-152
Bainer, Roy.....	D-171	Burkholder, P. R.....	D-156
Bald, J. G.....	D-170	Burkholder, W. H.....	D-170
Baldwin, G. E.....	D-169	Byer, A. C.....	D-156
Banerjee, H. K.....	D-174	Byrom, M. H.....	D-163
Bangham, W. N.....	D-171		
Bannan, M. W.....	D-172	Cabal Martínez, Efrén.....	D-161
Barkley, F. A.....	D-147	Cameron, C.....	D-171, D-172
Barnett, E. C.....	D-147	Camp, W. H.....	D-147
Barnett, O. H.....	D-154	Carbonel, J.....	D-152
Barroso, L. J.....	D-147	Carr, L. G.....	D-169
Barusch, M. R.....	D-155	Cash, E. K.....	D-150
Batson, F. S.....	D-172	Castetter, E. F.....	D-154
Bausor, S. C.....	D-156	Castillo V., Alonso.....	D-168
Beach, F. H.....	D-163	Castle, E. S.....	D-150
Beasley, J. O.....	D-162	Castle, Hempstead.....	D-169
Beers, C. D.....	D-145	Cave, M. S.....	D-156
Beetle, A. A.....	D-147	Chadwick, L. C.....	D-169
Bell, M. F.....	D-176	Chamberlain, C. J.....	D-146
Bell, W. H.....	D-154	Chandler, W. H.....	D-164
Berger, Julius.....	D-160	Chang, F. C.....	D-155
Bibby, Cyril.....	D-145	Chapman, H. D.....	D-164

	<u>Page</u>
Chepikova, A. R.....	D-166
Child, R. B.....	D-178
Choudhury, J. K.....	D-162
Clark, R. B.....	D-145
Clarke, O. F.....	D-160
Cobb, G. R.....	D-166
Coleman, Russell.....	D-177
Collins, E. R.....	D-164, D-177
Colvin, W. S.....	D-178
Comar, O. L.....	D-155
Condit, I. J.....	D-168
Cook, H. L.....	D-178
Cook, H. T.....	D-170
Cooper, Edward.....	D-169
Cooper, G. O.....	D-156
Cornman, Ivor.....	D-156
Correia, I. F.....	D-161
Couch, G. C.....	D-151
Cox, J. F.....	D-160
Crane, M. B.....	D-176
Cress, M.....	D-172
Croizat, Leon.....	D-147, D-172
Crosier, Willard.....	D-159
Cross, F. B.....	D-165
Cross, W. E.....	D-145
Crowther, E. M.....	D-177
Cushing, R. L.....	D-166
Cutter, V. M., Jr.....	D-150
Däniker, A. U.....	D-152
Darlington, C. D.....	D-155
Davidson, R. W.....	D-150
Davis, R. J.....	D-147
Davis, W. A.....	D-177
Deam, C. C.....	D-152
Descroizilles, J. V.....	D-152
Dickson, J. G.....	D-161
Dickson, S. W.....	D-171
Diehl, W. W.....	D-172
Dillman, A. C.....	D-168
Dines, F. F.....	D-161
Dobbs, C. G.....	D-173
Doig, Robert.....	D-169
Dore, W. G.....	D-166
Douglas, H. C.....	D-159
Down, E. E.....	D-175
Drake, Mack.....	D-178
Dregne, H. E.....	D-166
Drummond, O. A.....	D-174, D-175
Dunster, B. P.....	D-169
Dutt, B. K.....	D-157, D-174

	<u>Page</u>
Eades, Jack.....	D-175
Eaton, S. V.....	D-155
Edésio, irmão.....	D-152
Edlefsen, N. E.....	D-177
Eigsti, O. J.....	D-157, D-169
Erickson, R. O.....	D-148
Evans, A. T.....	D-145
Ezekiel, W. N.....	D-162
Farwell, O. A.....	D-152
Faulkner, R. P.....	D-169
Fawcett, H. S.....	D-164
Fernald, M. L.....	D-148, D-152
Ferraz do Amaral, J.....	D-164
Fisher, R. A.....	D-156
Fletcher, H. R.....	D-149
Flint, L. H.....	D-150
Fosberg, F. R.....	D-148, D-155
Franco do Amaral, Julio.....	D-173, D-174
Franklin, M. C.....	D-166
Fraser, Lillian.....	D-164
Friesner, R. C.....	D-152
Fulford, Margaret.....	D-151
Gager, C. S.....	D-145
Garcia, J. B.....	D-161
García Rada, Germán.....	D-163
Gattoni, L. A.....	D-174
Gayner, F. C. H.....	D-164
Gilbert, P. A.....	D-147
Gilbert, W. J.....	D-151
Giles, N. H., jr.....	D-152
Girton, R. E.....	D-157
Gladwin, H. S.....	D-173
Glynne, M. D.....	D-161
Goates, Rex.....	D-150
Gomez y Gutiérrez, Agustin.....	D-154
Gonzenbach, Carlos.....	D-174
Goodman, K. V.....	D-177
Gopinath, D. M.....	D-168
Görbitz, Adalberto.....	D-168
Graham, Archibald.....	D-169
Graham, R. J. D.....	D-159
Grant, Julius.....	D-155
Graves, A. H.....	D-173
Gray, S. G.....	D-175
Greaves, J. E.....	D-161
Gregory, G. B.....	D-166
Gregory, P. J.....	D-162
Grober, Samuel.....	D-173
Groh, Herbert.....	D-152

	<u>Page</u>		<u>Page</u>
Grover, F. O.....	D-173	Jackson, Lyman.....	D-160
Guard, A. T.....	D-152	Jacob, K. T.....	D-162
Gubler, C. J.....	D-161	Jenkins, A. E.....	D-164
Guegan, E. P.....	D-152	Jenkins, J. M., jr.....	D-170
Guenther, Ernest.....	D-154, D-168	Jennison, H. A.....	D-169
Guha-Thakurta, A.....	D-157, D-174	Johnson, E. L.....	D-147
Gustafson, F. G.....	D-157	Johnston, A. N.....	D-176
Gysel, L. W.....	D-177	Johnston, J. R.....	D-174
Haasis, F. A.....	D-169	Jolly, A. L.....	D-174
Hackney, F. M. V.....	D-165	Jones, C. H.....	D-153
Hall, E. G.....	D-165	Jones, H. E.....	D-178
Hamner, C. L.....	D-157	Jones, R. E.....	D-169
Hardy, Frederick.....	D-179	Jorgensen, Hans.....	D-175
Hartley, W.....	D-148	Judkins, W. P.....	D-155
Harvey, E. W.....	D-177	Kalashnikov, V. M.....	D-164
Haupt, A. W.....	D-151	Kar, B. K.....	D-174
Hawkes, A. D.....	D-148	Karling, J. S.....	D-150, D-174
Hayward, H. E.....	D-157	Karper, R. E.....	D-167
Hayward, Wyndham.....	D-174	Karr, E. H.....	D-160
Hearn, W. E.....	D-177	Katz, Alexander.....	D-168
Hecht, Adolph.....	D-157	Kay, Elizabeth.....	D-174
Heller, V. G.....	D-155, D-166	Keller, K. R.....	D-161
Hely, F. W.....	D-166	Kelly, R. W.....	D-154
Herrera, F. L.....	D-145	Kennedy, W. E.....	D-178
Herrick, J. A.....	D-150	Khristov, Aleksand'r.....	D-159
Hill, H. D.....	D-167	Kimbrough, W. D.....	D-168, D-176
Hinkle, D. A.....	D-167	Klotz, L. J.....	D-164, D-171
Hirschhorn, Elisa.....	D-150	Knapp, J. S.....	D-167
Hixon, R. M.....	D-162	Knowlton, C. E.....	D-169
Hoadley, A. D.....	D-161	Kobuski, C. E.....	D-148
Hodgkiss, W. S.....	D-178	Koch, L. W.....	D-176
Holmes, R. S.....	D-177	Koehler, Benjamin.....	D-161
Hood, Donald.....	D-155, D-166	Kramer, Amihud.....	D-164
Hoover, S. R.....	D-156	Kriebel, R.....	D-152
Hopkins, J. C. F.....	D-159, D-163, D-175	Krishnaswami, Nuggehalli.....	D-156
Hopkins, Milton.....	D-148	Krukoff, B. A.....	D-148
Horning, E. S.....	D-151	Kurz, H.....	D-157
Houghland, G. V. C.....	D-170	Lamb, I. M.....	D-151
Howard, R. A.....	D-148	Laude, H. H.....	D-167
Howell, J. T.....	D-148	Laughlin, E. E.....	D-153
Huff, Warren.....	D-178	Lawrence, C. E.....	D-178
Huffaker, C. B.....	D-153	Leach, L. D.....	D-172
Hugues, Aug.....	D-164	Leake, Marcelotte.....	D-161
Hulbary, R. L.....	D-173	Leding, A. R.....	D-157
Hull, E. D.....	D-148	Leggatt, C. W.....	D-167
Humfeld, Harry.....	D-155	Lewis, D.....	D-157, D-164
Iliev, Pet'r.....	D-162	Lewis, Russell.....	D-173
Isaac, W. E.....	D-164	Liberalli, C. H.....	D-145
Isely, C. C.....	D-161	Lieberman, S.....	D-155

<u>Page</u>	<u>Page</u>
Lindsay, George.....D-148	Mitchell, J.....D-178
Lineberry, R. A.....D-164	Moldenke, H. N.....D-153
Little, E. L., jr.....D-151	Monachino, Joseph.....D-148
Livingston, J. E.....D-176	Mookerjee, Asima.....D-155
Lohman, M. L.....D-150	Moran, W. J.....D-177
Loofbourow, J. R.....D-159	Morgan, M. W.....D-153
López R., Gabriel.....D-161	Morgan, W. L.....D-176
Lott, R. V.....D-165	Morris, H. F.....D-163
Ludbrook, W. V.....D-159, D-173	Morrison, F. R.....D-175
Ma, Roberta.....D-155	Morton, C. V.....D-147
McCann, L. P.....D-157	Moss, H. C.....D-178
McClellan, W. D.....D-169	Mrak, E. M.....D-159
McClelland, T. V.....D-175	Muirhead, C. W.....D-149
MacCurdy, J. G. B.....D-163	Mujica R., Fernando.....D-170
Machacek, J. E.....D-161	Mullison, W. R.....D-176
Machado S., Alberto.....D-175	Muñoz Pizarri, Carlos.....D-146
McHargue, J. S.....D-178	Myers, C. E.....D-176
McIntyre, H. L.....D-173	Myers, W. M.....D-167
McKellar, A. D.....D-173	Myler, J. L.....D-162
Mackenzie, K. K.....D-148	Nabuco de Araujo, C. E., jr...D-163
McMartin, A.....D-177	Narasimha Murthy, S.....D-157
McMinn, H. E.....D-170	Newton, J. D.....D-179
McVaugh, Rogers.....D-148	Nicholls, W. H.....D-149
McVeigh, Ilda.....D-156	Nickell, L. G.....D-169
McWhorter, O. T.....D-165	Nielsen, C. S.....D-157
Madison, S. V.....D-178	Nobrega, N. R.....D-176
Magee, C. J.....D-176	Noller, C. R.....D-155
Maloney, M. M.....D-153	Obregón Botero, Rafael.....D-165
Manke, K. F.....D-167	Odynsky, W.....D-179
Marcum, W. B.....D-177	Ogden, E. C.....D-153
Marsh, Helen.....D-153	Ohlrogge, A. J.....D-178
Marshall, T. J.....D-179	Olsen, S. R.....D-178
Marth, P. C.....D-169	Orton, C. R.....D-159
Martin, T. L.....D-150	Osborn, Ben.....D-153
Martin, W. R., jr.....D-165	Osborne, L. de J.....D-154
Martinez, Maximino.....D-148	Overbeek, Johannes van.....D-157
Martinez Moreno, J. I.....D-170	Oyler, Enid.....D-176
Massee, A. M.....D-159	Paden, W. R.....D-178
Mather, Kenneth.....D-156	Palit, B. K.....D-163
Matzke, E. B.....D-173	Pallmann, H.....D-178
Mead, H. W.....D-161	Palmer, L. S.....D-147
Melo, M. E.....D-161	Papenfuss, G. F.....D-151
Merrill, E. D.....D-146, D-149	Parbery, N. H.....D-178
Meyer, S. L.....D-151	Pardy, M. H.....D-175
Miles, Dimo.....D-177	Paredes C., Alfredo.....D-153
Miller, E. A.....D-167	Park, E. R.....D-157
Miller, J. C.....D-168	Parker, Dorothy.....D-151
Miller, P. A.....D-173	Parks, R. Q.....D-178
Minor, F. W.....D-156	
Miranda, Faustino.....D-153	

	<u>Page</u>		<u>Page</u>
Patterson, M. T.....	D-149	Rousseau, Jacques.....	D-146
Pearson, C. S.....	D-178	Ruiz O., Manuel.....	D-150
Pellett, F. C.....	D-146	Rupp, H. M. R.....	D-149
Peres de Mattos, Horacio.....	D-157	Russell, W. E.....	D-155
Pérez Rodriguez, Octavio.....	D-163		
Perret, Claude.....	D-171	Salvin, S. B.....	D-150
Perry, L. M.....	D-149	Scarseth, G. D.....	D-178
Pesel, Louisa.....	D-170	Schelotto, Bartolome.....	D-160
Phaff, H. J.....	D-159	Schlenker, F. S.....	D-178
Pidgeon, I. M.....	D-153	Schnyder, Arnold.....	D-160
Pierce, E. C.....	D-157	Schrader, A. L.....	D-164
Pierce, J. H.....	D-149	Schroeder, R. A.....	D-158
Pirone, P. P.....	D-170	Schultes, R. E.....	D-147, D-163
Porter, C. L.....	D-149	Scott, D. B., jr.....	D-160
Porter, R. H.....	D-167	Sears, P. B.....	D-153
Posnette, A. F.....	D-175	Selman, I. W.....	D-176
Pottz, G. E.....	D-158	Setzer, José.....	D-158
Potzger, J. E.....	D-153	Shacklette, H. T.....	D-151
Powers, W. L.....	D-166	Shah, S. V.....	D-168
Powning, R. F.....	D-166	Shain, S. S.....	D-167
Prince, A. L.....	D-178	Shalucha, Barbara.....	D-160
Pring, G. H.....	D-170	Shearin, A. E.....	D-178
Pucher, G. W.....	D-155	Sherman, G. D.....	D-178
Puffeles, M.....	D-178	Shutak, V. G.....	D-165
		Silberschmidt, Karl.....	D-160, D-176
Quinby, J. R.....	D-167	Silveira, V. D.....	D-150
		Silver, W. H.....	D-152
Ramos Nuñez, Guillermo.....	D-172	Simpson, G.....	D-153
Rawlins, T. E.....	D-160	Sinclair, S. M.....	D-154
Raymond, L. C.....	D-166	Singh, Lal.....	D-165
Read, W. H.....	D-176	Singh, Sham.....	D-165
Rege, A. V.....	D-168	Sinha, A. C.....	D-165
Reynard, G. B.....	D-175	Skaling, P. E.....	D-157
Reynolds, E. B.....	D-178	Skinner, J. J.....	D-177
Reynolds, M. E.....	D-157	Skoog, Folke.....	D-156
Rezende Pinto, M. C. de.....	D-150	Slade, G. H.....	D-170
Rhoades, M. M.....	D-158	Slater, C. S.....	D-179
Richardson, A. E. V.....	D-171	Sloane, B. L.....	D-149
Riecken, F. F.....	D-178	Small, James.....	D-158
Riley, H. P.....	D-158	Smith, A. C.....	D-149
Rinehart, F. A.....	D-155	Smith, C. R.....	D-172
Robbins, W. J.....	D-155	Smith, F. H.....	D-158
Robertson, R. N.....	D-165	Smith, F. L.....	D-176
Robinson, R. R.....	D-167	Smith, G. M.....	D-151
Rodriguez Lz., Luis.....	D-171	Smith, H. H.....	D-172
Roger, J. G.....	D-173	Smith, H. P.....	D-163
Rogers, J. S.....	D-162	Smith, T. J.....	D-167
Rohner, L. V.....	D-177	Smith, W. W.....	D-149
Rohrbaugh, L. M.....	D-158	Smock, R. M.....	D-165
Rolfs, F. M.....	D-165	Snow, A. G., jr.....	D-173

<u>Page</u>	<u>Page</u>
Snyder, W. C.....D-176	Trout, S. A.....D-165
Sokoloff, V. P.....D-171	Trumbull, H. L.....D-171
Sonnedecker, Glenn.....D-179	Tsatsenkin, I. A.....D-168
Sorensen, H. G.....D-171	Tseng, C. K.....D-151
Sornay, A. de.....D-172	Tukey, H. B.....D-165
Sprague, G. F.....D-162	
Sreenivasan, P. S.....D-179	Uphof, J. C. T.....D-146, D-156, D-165, D-171, D-175
Stanford, E. E.....D-146	Upton, H. N.....D-146
Stebbins, G. L., jr.....D-156	
Steckel, J. E.....D-178	Valle, C. G. del.....D-162
Stevenson, M. G. C.....D-172	Vanchikov, K. T.....D-150
Steyn, D. G.....D-160	Van Dersal, W. R.....D-170
Stöckli, A.....D-179	Van Rensselaer, Maunsell.....D-170
Stoller, B. B.....D-179	Vansell, G. H.....D-158
Stout, A. B.....D-170	Veihmeyer, F. J.....D-162
Svihla, R. D.....D-151	Vessel, A. J.....D-177
Swaby, R. J.....D-178	Vickery, H. B.....D-155
Swamy, B. G. L.....D-158	Vilkomerson, Hilda.....D-158
Swanson, A. F.....D-167	Villagran Prado, Francisco....D-158
Swanson, C. A.....D-151	Vine, H.....D-179
Swanson, C. P.....D-158	Vinson, C. G.....D-165
Swartley, J. C.....D-158	Viswa Nath, B.....D-179
Swartwout, H. G.....D-165	Vittum, M. T.....D-178
Swenson, T. L.....D-155	
Swift, L. J.....D-155	Wade, B. L.....D-176
Swingle, D. B.....D-146	Waksman, S. A.....D-151
Sykes, S. M.....D-165	Walkley, Allan.....D-156
	Wallace, H. A. H.....D-161
Tanfil'ev, V. G.....D-167	Walls, L. P.....D-166
Tantaquidgeon, Gladys.....D-163	Walp, Lee.....D-154
Tartakowsky H., S. J.....D-165	Walt, S. J. van der.....D-160
Tatum, L. A.....D-162	Walter, E. D.....D-155
Taylor, Herbert.....D-158, D-169	Ware, L. M.....D-176
Tehon, L. R.....D-173	Warner, J. D.....D-168
Tejara, Humberto.....D-146	Watson, W.....D-151
Tepp, Max.....D-154	Weatherwax, Paul.....D-146
Terenozhkin, I. I.....D-167	Weddell, D. J.....D-170
Thayer, J. W., jr.....D-175	Weihing, R. M.....D-168
Thimann, K. V.....D-156	Welch, W. H.....D-152
Thirumalachar, M. J.....D-150	Welsch, Maurice.....D-151
Thomas, P. T.....D-176	Werdermann, E.....D-154
Thompson, H. A.....D-179	Wernicke, Edmundo.....D-154
Thomson, J. S.....D-153	Wheeler, W. M.....D-146
Thorp, James.....D-177	Wherry, E. T.....D-146
Tiedjens, V. A.....D-178	Whetzel, H. H.....D-146
Tikhonov, N. N.....D-165	Whiffen, A. J.....D-151
Tiver, N. S.....D-163	White, Alain.....D-149
Tkachev, A. D.....D-168	White, J. W., jr.....D-156, D-162
Todd, F. E.....D-158	White, W. L.....D-149
Tolstead, W. L.....D-154	Whitehead, Jack.....D-153

	<u>Page</u>		<u>Page</u>
Whitford, L. A.....	D-152	Wyman, Donald.....	D-170
Whitney, J. B., jr.....	D-158		
Wiehe, P. O.....	D-175	Yarham, E. R.....	D-171
Wille, J. E.....	D-163	Young, A. A.....	D-159
Williams, C. H. B.....	D-171, D-172	Young, J. O.....	D-165
Williams, L. O.....	D-149	Youngken, H. W.....	D-163
Williams, R. F.....	D-179	Yuncker, T. G.....	D-152, D-160
Wilson, W. F.....	D-168		
Wood, T. B.....	D-179	Zahnley, J. W.....	D-168
Woodruff, H. B.....	D-151	Zhavoronkov, P. N.....	D-166
Wright, Richardson.....	D-147	Zimmerley, H. H.....	D-176
Wyatt, F. A.....	D-179	Zscheile, F. P.....	D-156, D-162

UNITED STATES DEPARTMENT OF AGRICULTURE
Library

RECEIVED

★ JAN 15 1943 ★

EASTERN SOIL
RESEARCH LABORATORY
LIBRARY 2



B I B L I O G R A P H Y O F A G R I C U L T U R E

SECTION D
PLANT SCIENCE

Vol. 1

December 1942

No. 6

The Bibliography of Agriculture is issued monthly
in five sections.

Section A, Agricultural Economics and Rural Sociology.
Supersedes Agricultural Economics Literature.

Section B, Agricultural Engineering. Supersedes Cur-
rent Literature in Agricultural Engineering.

Section C, Entomology. Supersedes Entomology Current
Literature.

Section D, Plant Science. Supersedes Plant Science
Literature.

Section E, Forestry. Continues Forestry Current
Literature, which ceased publication with v. 7,
no. 2, Mar.-Apr. 1940.

The edition of the Bibliography of Agriculture is so limited that
we are unable to fill all of the requests which we receive for it.
If you do not intend to file this publication permanently, please
return it to the Department of Agriculture Library so that it may be
made available to others.

Washington, D. C.

Abbreviations used in this publication are those listed in U. S. Department of Agriculture Miscellaneous Publication 337, Abbreviations Used in the Department of Agriculture for Titles of Publications. April 1939.

Call numbers following the citations are those of the U. S. Department of Agriculture Library unless otherwise noted.

The Department can supply only its own publications; other items cited may ordinarily be obtained from their respective publishers. Many of them are available for consultation in public or other libraries.

Photoprint or microfilm copies of any publication listed may be obtained from the Library. Order blanks giving prices and method of payment will be sent on request.

BIBLIOGRAPHY OF AGRICULTURE

SECTION D
PLANT SCIENCE

Vol. 1

December 1942

No. 6

BOTANICAL SCIENCEGENERAL

- BREED, ROBERT S., and CONN, HAROLD J. Bacterial generic names as common nouns. Science 96(2500): 493-494. Nov. 27, 1942. 470 Sci2
- FERNANDO, S. C. History of the Department of agriculture, Ceylon. Trop. Agr. [Ceylon] 97(3,4,5): 135-137, 215-228, 275-293. Sept., Oct., Nov. 1941. 26 T751
"Department of Agriculture dates from 1912. Till then, for nearly a century the Royal botanic gardens functioned as an agricultural department."
- HUTCHINSON, JOHN. Hay fever. Gard. Chron. 112(2912): 142-143, illus. Oct. 17, 1942. 80 G162.
- THE LENINGRAD botanical institute. Nature [London] 150(3808): 487. Oct. 24, 1942. 472 N21
- McCLELLAND, ELLWOOD H., and DAYTON, W. A. Standardized plant names. Jour. Forestry 40(11): 891-896. Nov. 1942. 99.8 F768
W. A. Dayton, author of second part.
Comments on the 1942 edition.
- McLAUGHLIN, WILLARD T., and BROWN, ROBERT L. Controlling coastal sand dunes in the Pacific Northwest. U. S. Dept. Agr. Cir. 660, 46 pp., illus. Sept. 1942. 1 Ag84C
Vegetal control, pp. 17-44.
- THE NEW Inter-American institute. U. S. Off. Foreign Agr. Relat. Agr. in the Americas 2: 223-225, illus. (incl. map) Dec. 1942. 1 F752A
Costa Rica becomes the center for the scientific work of the Americas on tropical agricultural problems.
- A NOTABLE gift to the Missouri botanical garden. Mo. Bot. Gard. Bul. 30(9): 179-181. Nov. 1942. 451 M69B
A tract of about 150 acres of virgin land within easy reach of St. Louis.
- PEARSE, ARTHUR S. Marine biological stations. Tenn. Acad. Sci. Jour. 17(4): 345-47. Oct. 1942. 500 T25A
- ROJAS, TEODORO. Jardín botánico del Paraguay. (cont.) Agr., Com. e Indus. Rev. Min. Agr., Com. e Indus. [Paraguay] 2(6): 47-59. June 1942. 9.7 Ag8R
- STEENIS, CORNELIS G. G. J. van. Uniformiteit in de botanische nomenclatuur. Natuurw. Tijdschr. v. Nederland. Indië 101(6): 180-181. June 1, 1941. 514 B31

TEUSCHER, HEINRICH. Program for an ideal botanical garden.
Montreal Bot. Gard. Mem. no. 1, 32 pp. Montreal, 1940.
451 M765M

BIOGRAPHY

- ALICE EASTWOOD. Calif. Acad. Sci. Acad. News Let. 36: 4-7, front. (port.) Dec. 1942. 500 C12A
- BROWNE, CHARLES A. Ross Aiken Gortner, 1885-1942. Sci. Monthly 55(6): 571-573, port. Dec. 1942. 470 Sci23
- DR. ARTHUR H. ROSENFELD. Sugar 37(12): 35, port. Dec. 1942. 65.8 F11
- MAINS, EDWIN B. Joseph Charles Arthur. (1850-1942). Mycologia 34(6): 601-605, port. Nov./Dec. 1942. Bibliographical footnotes. 450 M99
- Died April 30, 1942.
- ROBBINS, WILFRED W. Francis Ramaley (1870-1942). Ecology 23(4): 335-386, front. (port.) Oct. 1942. 410 Ec7
- RODGERS, ANDREW D. John Torrey, a story of North American botany. 352 pp., front. (port.), map. [Princeton], Princeton university press, 1942. Bibliography. 120 T63R
- SHAVER, JESSE M. How to make a great man. Tenn. Acad. Sci. Jour. 17(4): 351-359. Oct. 1942. Bibliography. 500 T25A
- Charles Darwin.
- WRIGHT, RICHARDSON. Early New York seedsmen and nurserymen. N. Y. Bot. Gard. Jour. 43(515): 261-268, illus. (incl. ports.) Nov. 1942. 451 N48J

SYSTEMATIC BOTANY

- BARKER, WINSOME F., and others. Plantae novae Africanæ. XVIII. Jour. So. African Bot. 8(4): 245-270, illus. Oct. 1942. 450 J8262
- R. H. Compton, S. Garside, M. R. Levyns, T. M. Salter, and G. G. Smith, joint authors.
- BARNBY, R. C. A new species of *Mirabilis*, with remarks on *Hermidium* and related genera. [*M. pudica*]. Leaflets West. Bot. 3(8): 175-179. Nov. 19, 1942. 450 L47
- BONDAR, GREGORIO. Palmeiras da baía. I. Chacaras e Quintas 66(3): 350-351, illus. Sept. 15, 1942. 9.2 C34
- Includes *Cocos tostana* n. sp.
- EASTWOOD, ALICE. New species and varieties of *Lupinus*. Leaflets West. Bot. 3(8): 169-175. Nov. 19, 1942. 450 L47
- EASTWOOD, ALICE. *Solanum lanceolatum* in California. Leaflets West. Bot. 3(8): 189-190. Nov. 19, 1942. 450 L47
- FOSBERG, FRANCIS R. Segregation of type specimens. Science 96(2501): 515-516. Dec. 4, 1942. 470 Sci2
- GILLY, CHARLES L. Two new species of *Caryocaraceae* from northern South America. Yale Univ., School Forestry Trop. Woods 72: 16-18. Dec. 1, 1942. 99.08 YlTr
- Anthodiscus mazarunensis*, *Caryocar krukovichii*.

- HIGINBOTHAM, NOE. *Cephalomonas*, a new genus of the Volvocales, [*C. granulata* n. sp.]. Torrey Bot. Club Bul. 69(9): 661-668, illus. Dec. 1942. Literature cited. 451 T63B
- HOWELL, JOHN T. Studies in *Phacelia* III. Leaflets West. Bot. 3(8): 190-192. Nov. 19, 1942. 450 L47
- P. austromantana*, *P. barnebyana* n. spp.
- LAWRENCE, GEORGE H. M., and SCHULZE, ARNOLD E. The cultivated hederas. Bailey, L. H. *Gentes Herbarum* 6(3): 107-173, illus. Nov. 1942. 450 B15
- LEONARD, EMERY C. Three new species of Acanthaceae from Mexico. Wash. Acad. Sci. Jour. 32(11): 341-343. Nov. 15, 1942. 500 W276J
- Buceragenia ruellioides*, *Justicia wigginsii*, *Jacobinia roseana*.
- MORAN, REID. The status of *Dudleya* and *Stylophyllum*. Desert Plant Life 14(8): 149-157, illus. Oct. 1942. Literature cited. 450 D45
- Dudleya* and *Stylophyllum* combined as the subgenera *Eududleya* and *Stylophyllum* of the one genus "*Dudleya*" the latter name retained because of page priority.
- MORRIS, PATRICK F., and WILLIS, JAMES H. Confused taxonomy in the *Ozothamnus* section of *Helichrysum*, and its rectification. Victorian Nat. 59(5): 84-88. Sept. 1942. 410 V66
- H. hookeri* var. *expansifolium* n. var.
- PIERCE, JOHN H. The American species of *Daubentonia* (Leguminosae). Yale Univ., School Forestry Trop. Woods 72: 12-15. Dec. 1, 1942. 99.08 Yltr
- PILLANS, NEVILLE S. New species of South African Restionaceae. Roy. Soc. So. Africa, Cape Town, Trans. 29(4): 339-356. Sept. 1942. 515 So8A
- PRING, GEORGE H. Five-fingered swan-neck orchid (*Cynoches pentadactylon*). Mo. Bot. Gard. Bul. 30(9): 183-186, illus., pl. 41. Nov. 1942. 451 M69B
- SCHWEICKERDT, HAROLD G. A taxonomic and anatomical study of *Elytrophorus* Beauv. Natal Mus. Ann. 10(2): 191-214, illus. Oct. 31, 1942. 515 N19
- SHERFF, EARL E. Revision of the Hawaiian members of the genus *Pittosporum* Banks. Field Mus. Nat. Hist., Chicago, Bot. Ser. 22(10): 467-566. Nov. 16, 1942. 500 C432B
- SHERFF, EARL E. Some new or otherwise noteworthy Mexican *Coreopsiadeae* (genera *Heterosperma* Cav. and *Bidens* L.) and a note on *Xylosma hawaiiense* Seem. Field Mus. Nat. Hist., Chicago, Bot. Ser. 22(10): 567-573. Nov. 16, 1942. 500 C432B
- H. brandegeei* n. sp.
- SOME changes in nomenclature. III (IV pts.). Jour. So. African Bot. 8(4): 271-284, illus. Oct. 1942. 450 J8262
- Pt. I by R. S. Adamson, pp. 271-278; pt. II by T. M. Salter, pp. 278-282; pt. III by M. R. Levyns, pp. 282-284; pt. IV by E. P. Phillips, p. 284.
- WHEELER, LOUIS C. *Amaranthus powellii* in California. Leaflets West. Bot. 3(8): 185-187. Nov. 19, 1942. 450 L47
- WILLIAMS, LOUIS O. A new *Epidendrum* from Panama. [*E. cryptanthum*.] Amer. Orchid Soc. Bul. 11(7): 249, pl. 7. Dec. 1, 1942. 80 Am329

FERNS AND FERN ALLIES

- BROWN, CLAIR A., and CORRELL, DONOVAN S. Ferns and fern allies of Louisiana. 185 pp., illus. Baton Rouge, La., Louisiana State Univ. press, 1942. Bibliography. 461.2 B81
- MCCULLOCH, W. F. The role of bracken fern in Douglas-fir regeneration. Ecology 23(4): 484-485. Oct. 1942. Literature cited. 410 Ec7
- SHAVER, JESSE M. Some general notes on ferns. Tenn. Acad. Sci. Jour. 17(4): 311-336, illus. (incl. map). Oct. 1942. Bibliography. 500 T25A
- WAKEFIELD, N. A. A new species of Schizaea. [S. asperula] Victorian Nat. 59(5): 89-90. Sept. 1942. 410 V66
- WAKEFIELD, N. A. The shore spleenworts of Victoria. Victorian Nat. 59(6): 111-112. Oct. 1942. 410 V66
- Asplenium scleroprium, A. obtusatum.

FUNGI

- BEDFORD, C. L. A taxonomic study of the genus Hansenula. Mycologia 34(6): 628-649. Nov./Dec. 1942. Bibliography. 450 M99
- H. subpelliculosa, Pichia kluyveri n. spp. Includes study of six cultures of Pichia.
- BONAR, LEE, and COOKE, WILLIAM B. Some new and interesting fungi from Mount Shasta. Mycologia 34(6): 663-668. Nov./Dec. 1942. 450 M99
- Lophodermium phloxii, Phyllosticta fritillariae, P. nigrescens, Septoria shastensis n. spp.
- CLAYTON, CARLYLE N. The germination of fungous spores in relation to controlled humidity. Phytopathology 32(11): 921-943, illus., diagrs. Nov. 1942. Literature cited. 464.8 P56
- CRAIGIE, JOHN H. Heterothallism in the rust fungi and its significance. Roy. Soc. Canada, Proc. and Trans., III, 36(V, Biol. Sci.): 19-40, plates. May 1942. References. 517 Ot81
- CUMMINS, GEORGE B. Revisionary studies in the tropical American rusts of Panicum, Paspalum and Setaria. Mycologia 34(6): 669-695, illus. Nov./Dec. 1942. Literature cited. 450 M99
- Puccinia catevaria, P. pseudoatra, n. spp.
- DAVIDSON, ROSS W. Some additional species of Ceratostomella in the United States. Mycologia 34(6): 650-662, illus. Nov./Dec. 1942. Literature cited. 450 M99
- C. (Ophiostoma) microspora, C. (Grosmannia) leptographioides, C. (Grosmannia) rostrocyllindrica n. spp.
- DRECHSLER, CHARLES. Two zoophagous species of Acrostalagmus with multicellular Desmidiopsis-like chlamydospores. Wash. Acad. Sci. Jour. 32(11): 343-350, illus. Nov. 15, 1942. Literature cited. 500 W276J
- A. goniodes, A. tagenophorus, n. spp.
- EHRLICH, JOHN. Occurrence of Gonatorrhodiella heighlei in Nova Scotia and New Brunswick. Mycologia 34(6): 705. Nov./Dec. 1942. 450 M99
- Found in affected beech stands during summers of 1930-1932.

- ELMER, OTTO H. Effect of environment on the prevalence of soil-borne Rhizoctonia. *Phytopathology* 32(11): 972-977. Nov. 1942. 464.8 P56
- GARCIA RADA, GERMAN, and STEVENSON, JOHN A. La flora fungosa peruana. Lista preliminar de hongos que atacan a las plantas in el Peru. 112 pp. Lima, Peru, Lima estacion experimental agricola de La Molina, 1942. Literature cited. 462.17 L62
- HIRSCHHORN, ELISA. Nota crítica sobre las especies de *Urocystis* de la Argentina. *La Plata Mus. Notas* 7(Bot.36): 81-92, pl. i-ii. Aug. 12, 1942. Bibliographical footnotes. 451 L31
- KAVANAGH, FREDERICK. The interaction between thiamine and four fungi. *Torrey Bot. Club. Bul.* 69(9): 669-691. Dec. 1942. Literature cited. 451 T63B
- Phycomyces blakesleeanus*, *Phytophthora cinnamomi*, *Mucor ramannianus*, *Sclerotium rolfsii*.
- MARTIN, GEORGE W. Taxonomic notes on myxomycetes. *Mycologia* 34(6): 696-704, illus. Nov./Dec. 1942. 450 M99
- PADY, STUART M. Distribution patterns in *Melampsorella* in the national forests and parks of the western states. *Mycologia* 34(6): 606-627, illus. (maps) Nov./Dec. 1942. Literature cited. 450 M99
- SEAVER, FRED J. The mycoflora of Bermuda. *Science* 96(2499): 462-463. Nov. 20, 1942. 470 Sci2
- TÄUSCHENDE gift- und speisepilze. *Schweiz. Gart.* 1942(7): 189-195, illus. July 1942. 80 Sch93
- WEHMEYER, LEWIS E. A revision of *Melanconis*, *Pseudovalsa*, *Prosthecium*, and *Titania*. 161 p., xi pl. on 6 l., fold. tab. Ann Arbor, University of Michigan press, 1941 (University of Michigan studies. Scientific series vol. xiv) 462.05 W42R
- Appendix includes descriptions of all species of *Calospora* and a few of *Massaria* and *Aglaospora*.

OTHER CRYPTOGAMS

- ALLEN, WINFRED E. Occurrences of "red water" near San Diego. *Science* 96(2499): 471. Nov. 20, 1942. 470 Sci2
- Prorocentrum micans* contributed color in May but *Goniaulax polyhedra* was causative in September.
- BIBBY, P. Victorian lichens. *Victorian Nat.* 59(6): 108-110, illus. Oct. 1942. 410 V66
- ELROD, RALPH P. The *Erwinia*-coliiform relationship. *Jour. Bact.* 44(4): 433-440. Oct. 1942. References. 448.3 J82
- FRITSCH, FELIX E., and JOHN, R. P. An ecological and taxonomic study of the algae of British soils. II. Consideration of the species observed. *Ann. Bot. [London] (n.s.)* 6(23): 371-395, illus. July 1942. Literature cited. 450 An7
- FRITSCH, FELIX E. Studies in the comparative morphology of the algae. I. Heterotrichy and juvenile stages. *Ann. Bot. [London] (n.s.)* 6(23): 397-412, illus. July 1942. Literature cited. 450 An7
- FULFORD, MARGARET. Development of sporelings in the *Lejeuneaceae*. *Torrey Bot. Club. Bul.* 69(9): 627-633, illus. Dec. 1942. Bibliographical footnotes. 451 T63B

- FULLER, W. H., and VANDECAVEYE, S. C. Isolation and identification of rhizobia bacteriophage. Soil Sci. Soc. Amer. Proc. (1941) 6: 197-199, illus. [1942] Literature cited. 56.9 So3
Rhizobium melilotii.
- GAFFRON, HANS. The effect of specific poisons upon the photo-reduction with hydrogen in green algae. Jour. Gen. Physiol. 26(2): 195-217. Nov. 20, 1942. Literature cited. 447.8 J822
- GAFFRON, HANS, and RUBIN, JACK. Fermentative and photochemical production of hydrogen in algae. Jour. Gen. Physiol. 26(2): 219-240. Nov. 20, 1942. Literature cited. 447.8 J822
- GAFFRON, HANS. Reduction of carbon dioxide coupled with the oxyhydrogen reaction in algae. Jour. Gen. Physiol. 26(2): 241-267, illus. Nov. 20, 1942. Literature cited. 447.8 J822

GEOGRAPHIC BOTANY AND ECOLOGY

- AHRENS, THEODOR G. Deciduous trees around Geneva, Switzerland. Trees 5(5): 13. Nov. 1942. 99.8 W52
- ALLAN, HARRY H. What is Convolvulus? New Zeal. Inst. Hort. Jour. 12(2): 22-24, illus. Sept. 1942. 87 M485J
Species of Convolvulus and Calystegia in New Zealand.
- AUGUSTO, irmao, and EDESIO, irmao. Flora do Rio Grande do Sul (Plantas catalogadas neste estado até hoje, 1820-1940). (cont.) Rev. Agron. [Rio Grande do Sul] 6(69): 497-500, illus. Sept. 1942. 9.2 R325
- CABRERA, ÁNGEL L. Adiciones a las compuestas del parque nacional del Manuel Huapí. La Plata Mus. Notas 7(Bot. 37): 111-121, illus. Aug. 26, 1942. 451 L31
Chevreulia diemii n. sp.
- ELLISON, LINCOLN. Overlays as a visual aid in analysis of permanent quadrat records. Ecology 23(4): 482-484. Oct. 1942. 410 Ec7
- HANSEN, HENRY P., and ALLISON, IRA S. A pollen study of a fossil peat deposit on the Oregon coast. Northwest Sci. 16(4): 86-92. Nov. 1942. Literature cited. 470 N81
Bog at the north end of Nye Beach, Newport, Oregon.
- HOEHNE, FREDERICO C. Flora brasílica, v. 25, pt. 3, nos. 126-127, 39 pp., 40 pl. São Paulo, Brasil, F. Lanzara, July 1941. 457.2 Sa6F
No. 126. Dalbergia. No. 127. Cyclolobium.
- HOWELL, JOHN T. A notable accession to the Californian chickweeds, [Stellaria obtusa] Leaflets West. Bot. 3(8): 192. Nov. 19, 1942. 450 L47
- HOWELL, JOHN T. A short list of plants from Cedros Island, Lower California. Leaflets West. Bot. 3(8): 180-185. Nov. 19, 1942. 450 L47
- HOWELL, JOHN T. Veronica triphyllos L. in California. Leaflets West. Bot. 3(8): 188. Nov. 19, 1942. 450 L47
- HOWELL, JOHN T. Western plants from here and there. Leaflets West. Bot. 3(8): 187-188. Nov. 19, 1942. 450 L47
- KANJILAL, UPENDRANATH N., and others. Flora of Assam. v. 4-5. 377, 480 pp. Assam, Published under the authority of the government, 1940. 460.12 K13
v.4. Nyctaginaceae to Cycadaceae. P. C. Kanjilal, R. N. De, and A. Das, joint authors. v.5. Gramineae. N. L. Bor, sole author.

- LeBARRON, RUSSELL K., and NEETZEL, JOHN R. Drainage of forested swamps. *Ecology* 23(4): 457-465, illus. (map). Oct. 1942.
Literature cited. 410 Ec7
Experimental area near Dukes, Upper Peninsula of Michigan.
- LINDEMAN, RAYMOND L. The trophic-dynamic aspect of ecology. *Ecology* 23(4): 399-418. Oct. 1942. Literature cited. 410 Ec7
Addendum [Raymond Lindeman 1915(?) - 1942] by G. Evelyn Hutchinson.
- LINDSAY, GEORGE. *Pachycereua orcuttii*. *Desert Plant Life* 14(8): 145-146, illus. Oct. 1942. 450 D45
- LUNDELL, CYRUS L. Flora of eastern Tabasco and adjacent Mexican areas. *Mich. Univ. Herb. Contrib.* 8: 1-74, illus. (incl. map), iv pl. Sept. 1942. 451 M5812
- LUNDELL, CYRUS L. Studies of American spermatophytes. III. Plants of Texas, Chiapas, and British Honduras. *Mich. Univ. Herb. Contrib.* 8: 75-88. Sept. 1942. 451 M5812
- McFARLAND, FRANK T. A catalogue of the vascular plants of Kentucky. *Castanea* 7(6/7): 77-108. Oct./Nov. 1942. 450 So82
- OOSTING, HENRY J., and REED, JOHN F. The establishment of a white birch community on cutover pulpwood land in northwestern Maine. *Torrey Bot. Club. Bul.* 69(9): 647-660. Dec. 1942. Literature cited. 451 T63B
- PARODI, LORENZO R. Viaje a la provincia de Catamarca. *La Plata Mus. Rev.*, (n. s.) *Sec. Ofic.* (1941) pp. 64-77, illus. 1942. 516 L31Ro
Plant collecting and study of the types of vegetation.
- PILAR RODRIGO, AMÉRICA del. Informe de un viaje de San Juan. *La Plata Mus. Rev.*, (n. s.) *Sec. Ofic.* (1941) pp. 77-90, illus. 1942. 516 L31Ro
Plant collecting and study of the types of vegetation.
- SAGRETTA, KAMTA P. List of common forest plants of the Central Provinces and Berar. *Cent. Provs. and Berar [India] Forest Dept. Bul.* 1, 20 pp. 1938. 99.9 C31
- SMITH, AUSTIN. Promising horticultural material from Costa Rica. *Calif. Hort. Soc. Jour.* 3(4): 170-175. Oct. 1942. 81 C1293
Begonia alnifolia, *Lobelia laxiflora*, *Phaedranassa carmiolii*, *Mandevilla veraguensis*, *Solanum wendlandii albescens*, *Centropogon austin-smithii*.
- WEST, JAMES. Letters from South America. III. *Calif. Hort. Soc. Jour.* 3(4): 203-208. Oct. 1942. 81 C1293
Plant collecting in South America.
- WHITE, W. T., and others. Range condition, an index to forage production and profitable ranching. 32 pp., illus., processed. Portland, Oreg., U. S. Soil conservation service, Pacific coast region [1942]. 1.9609 R161
W. R. Frandsen, R. R. Humphrey, N. T. Nelson, joint authors.
Vegetation types, pp. 7-32.
- WILLIS, JAMES H. The wonder-lily of Beenak, [*Asstelia nervosa* var. *australiana*]. *Victorian Nat.* 59(5): 90-91. Sept. 1942. 410 V66

ECONOMIC BOTANY

- PECKOLT, WALDEMAR. A taboá (Typha) e suas utilidades, [T. minor] Chacaras e Quintaes 66(3): 338-340, illus. Sept. 15, 1942.
9.2 C34

PALEOBOTANY

- WILSON, LEONARD R., and WEBSTER, R. M. Fossil evidence of wider post-pleistocene range for butternut and hickory in Wisconsin. Rhodora 44(527): 409-416. Nov. 1942. Literature cited.
450 R34

TECHNIQUE

- AYERS, ALVIN D. Comparison of the calcium and sulphur content of plant fluids expressed from tissues killed by autoclaving and by freezing with solid carbon dioxide. Plant Physiol. 17(4): 661-665. Oct. 1942. Literature cited. 450 P692
Experiments with cotton and tomato plants.
- BURTON, CHARLES J., BARNES, R. BOWLING, and ROCHOW, T. G. The electron microscope: Calibration and use at low magnifications. Indus. and Engin. Chem., Indus. Ed. 34(12): 1429-1436, illus. Dec. 1942. 381 J825
- DARLING, H. S. A note on ecological photometers with special reference to rectifier (selenium) cells. Trop. Agr. [Trinidad] 19(7): 129-130. July 1942. Literature cited. 26 T754
- DEMPSTER, WILFRID T. Distortions due to the sliding microtome. Anat. Rec. 84(3): 269-274, illus. Nov. 25, 1942. Literature cited. 447.8 Anl
- DEMPSTER, WILFRID T. The mechanics of paraffin sectioning by the microtome. Anat. Rec. 84(3): 241-267, illus. Nov. 25, 1942. Literature cited. 447.8 Anl
- NELSON, RICHARD C. A method of studying the movement of respiratory gases through waxy coatings. Plant Physiol. 17(4): 509-514, illus. Oct. 1942. Literature cited. 450 P692
Pumpkin used as test object.
- ZSCHEILE, FREDERICK P., COMAR, CYRIL L., and MACKINNEY, GORDON. Interlaboratory comparison of absorption spectra by the photoelectric spectrophotometric method. Determinations on chlorophyll and Weigert's solutions. Plant Physiol. 17(4): 666-670. Oct. 1942. Literature cited. 450 P692

CHEMISTRY

- ANDERSEN, A. A., and GREAVES, JOSEPH E. d-Lactic acid fermentation of Jerusalem artichokes. Indus. and Engin. Chem., Indus. Ed. 34(12): 1522-1526. Dec. 1942. Literature cited. 381 J825
- COMAR, CYRIL L. Analysis of plant extracts for chlorophylls a and b, using a commercial spectrophotometer. Indus. and Engin. Chem. Analyt. Ed. 14(11): 877-879. Nov. 15, 1942. Literature cited. 381 J825A
- KAUFERT, FRANK H., and BEHR, E. A. Susceptibility of wood to decay: Effect of urea and other nitrogenous compounds. Indus. and Engin. Chem., Indus. Ed. 34(12): 1510-1515, illus. Dec. 1942. Literature cited. 381 J825

MacINTIRE, W. H., and others. Fluorine content of plants fertilized with phosphates and slags carrying fluorides. Indus. and Engin. Chem., Indus. Ed. 34(12): 1469-1479, illus. Dec. 1942. Literature cited. 381 J825

S. H. Winterberg, J. A. Thompson, and B. W. Hatcher, joint authors. Livestock will suffer no ill effect from the feeding of forage crops grown on soils fertilized with fluoride-bearing phosphates and liming materials.

REED, HOWARD S., and DUFRENOY, JEAN. Pyridoxin and coacervates in plant cells. Science 96(2499): 470. Nov. 20, 1942. 470 Sci2

Experiments with mustard plants.

STAUB, HELEN. Ueber nichtalkaloidische inhaltsstoffe der mandragora-wurzel. [Mandragora autumnalis.] Helvetica Chim. Acta 25(4): 649-683. June 15, 1942. Bibliographical footnotes. 385 H36

VIGNEAUD, VINCENT du. The structure of biotin. Science 96(2499): 455-461. Nov. 20, 1942. 470 Sci2

GENETICS AND BREEDING

DUFFIELD, JOHN W. The cytological basis of forest tree improvement. Jour. Forestry 40(11): 859-864, illus. Nov. 1942. Bibliography. 99.8 F768

FROST, HOWARD B., and ERUG, CARLOS A. Diploid-tetraploid periclinal chimeras as bud variants in citrus. Genetics 27(6): 619-634, illus. Nov. 1942. Literature cited. 442.8 G28

Hybrid mandarin (King x Dancy).

McCLINTOCK, BARBARA. The fusion of broken ends of chromosomes following nuclear division. Natl. Acad. Sci. Proc. 28(11): 458-463. Nov. 1942. 500 N21P

MARSHAK, ALFRED, and MALLOCK, WALTER S. The effect of fast neutrons on chromosomes in meiosis and its bearing upon pachytene pairing. Genetics 27(6): 576-583. Nov. 1942. Literature cited. 442.8 G28

Experiments with *Vicia faba*.

POWERS, LeROY. The nature of the series of environmental variances and the estimation of the genetic variances and the geometric means in crosses involving species of *Lycopersicon*. Genetics 27(6): 561-575. Nov. 1942. Literature cited. 442.8 G28

Study of tomato fruits from an original cross of Denmark variety (*L. esculentum*) with Red currant variety (*L. pimpinellifolium*).

ROBERTS, L. M. The effects of translocation on growth in *Zea mays*. Genetics 27(6): 584-603. Nov. 1942. Literature cited. 442.8 G28

ROUSSEAU, JACQUES. Notions élémentaires de génétique. Montreal Jard. Bot. Bul. 2, 153 pp., front., illus. Montreal, 1941. Bibliography. 451 M765

SKIRM, GEORGE W. Bivalent pairing in an induced tetraploid of *Tradescantia*. Genetics 27(6): 635-640. Nov. 1942. Literature cited. 442.8 G28

SPARROW, ARNOLD H. Non-random uncoiling in heterobrachial chromosomes. Natl. Acad. Sci. Proc. 28(11): 463-467. Nov. 1942. Bibliographical footnotes. 500 N21P

Experiments with *Trillium grandiflorum*.

PHYSIOLOGY AND MORPHOLOGY

- ARNON, DANIEL I., FRATZKE, W. E., and JOHNSON, C. M. Hydrogen ion concentration in relation to absorption of inorganic nutrients by higher plants. *Plant Physiol.* 17(4): 515-524. Oct. 1942. Literature cited. 450 P692
- Experiments with tomato, lettuce, and Bermuda grass.
- ARNON, DANIEL I., and JOHNSON, C. M. Influence of hydrogen ion concentration on the growth of higher plants under controlled conditions. *Plant Physiol.* 17(4): 525-539, illus. Oct. 1942. Literature cited. 450 P692
- Experiments with tomato, lettuce and Bermuda grass.
- COLEMAN, EDITH. Pollination of *Salvia regeliana*. *Victorian Nat.* 59(6): 105-107, illus. Oct. 1942. 410 V66
- COMMONER, BARRY, and MAZIA, DANIEL. The mechanism of auxin action. *Plant Physiol.* 17(4): 682-685. Oct. 1942. Literature cited. 450 P692
- EYSTER, HENRY C. Enzymes and the law of mass action. *Plant Physiol.* 17(4): 686-688. Oct. 1942. Literature cited. 450 P692
- FLINT, LEWIS H., and MORELAND, CHARLES F. A comparison of the effects of green light and of red light on the simple-leaf development of intact and decapitated bean plants. *Plant Physiol.* 17(4): 677-681, illus. Oct. 1942. Literature cited. 450 P692
- FOSTER, ADRIANCE S. Practical plant anatomy. 155 pp. New York, D. Van Nostrand co., 1942. References. 463.41 F81
- FRAHM-LEWIVELD, J. ADOLPHINA. Some remarks on the formation of the pollinia in *Gymnadenia conopsea* (L.) R.Br. (Orchid.) *Natuurw. Tijdschr. v. Nederland. Indië* 101(8): 242-244, illus. Aug. 1, 1941. Literature. 514 B31
- IHRIG, HERBERT G. An amateur's observations on hardiness from growing rhododendrons in the Pacific northwest. *Arnoldia* 2(10): 53-56. Nov. 20, 1942. 451 Ar6Ba
- INGHAM, G. Fertility of the air: The composition of the atmosphere with special reference to plant nutrition. *So. African Chem. Inst. Jour.* 25(2): 35-41. July 1942. References. 385 So84
- LEONARD, LEWIS T. Cassia tora, a legume not producing nodules. *Amer. Soc. Agron. Jour.* 34(11): 1059-1060. Nov. 1942. 4 Am34P
- MACHT, DAVID I. Influence of sulfanilamide and derivatives on growth of *Lupinus albus*. *Plant Physiol.* 17(4): 671-676. Oct. 1942. Literature cited. 450 P692
- PIERRE, WILLIAM H., and ALLAWAY, W. H. Calcium in the soil. II. Biological relations. *Soil Sci. Soc. Amer. Proc.* (1941) 6: 16-26. [1942] Literature cited. 56.9 So3
- ROGERS, H. T., PEARSON, R. W., and PIERRE, WILLIAM H. The source and phosphatase activity of exoenzyme systems of corn and tomato roots. *Soil Sci.* 54(5): 353-366, illus. Nov. 1942. References. 56.8 So3
- SOMERS, I. I., and SHIVE, JOHN W. The iron-manganese relation in plant metabolism. *Plant Physiol.* 17(4): 582-602, illus. Oct. 1942. Literature cited. 450 P692
- Experiments with soybean.

- STRAUS, WERNER. Recherches sur les chromatophores III. Etude des cristaux, rubans et bâtonnets rouges de la carotte. Helvetica Chim. Acta 25(4): 705-717, illus. June 15, 1942. Bibliographical footnotes. 385 H36
- THOMAS, J. B. Over bio-electriciteit. Natuurw. Tijdschr. v. Nederland. Indië 101(6): 164-170. June 1, 1941. 514 B31
Includes experiments with Valonia, Halicystis, Coleus and Vicia.
- VIVIAN, V. EUGENE. Symmetry studies in Sagina. Torrey Bot. Club. Bul. 69(9): 634-646, illus. Dec. 1942. Literature cited. 451 T63B

PATHOLOGY

- BRAUN, ARMIN C., and LASKARIS, THOMAS. Tumor formation by attenuated crown-gall bacteria in the presence of growth-promoting substances. Natl. Acad. Sci. Proc. 28(11): 468-477, illus. Nov. 1942. Bibliographical footnotes. 500 N21P
Experiments with tomato, variety Bonny Best.
- COHEN, SEYMOUR S. New crystalline forms of tomato bushy stunt virus. Soc. Expt. Biol. and Med. Proc. 51(1): 104-105, illus. Oct. 1942. 442.9 Sol
- FREAR, D. E. H. Chemistry of insecticides and fungicides. 300 pp., illus. New York, D. Van Nostrand co., 1942. References. 386 F87
- KADOW, KENNETH J. Plant pathology department 1941-1942 report. Del. State Bd. Agr. Quart. Bul. 32(3): 32-34, illus. Sept. 30, 1942. 2 D37B
- KETRON, WAYNE. Spergon trials. West. Canner and Packer 34(12): 19-21, illus. Nov. 1942. 286.83 W522
Trials show varied growth of treated and non-treated seeds.
[Experiments with beans and peas.]
- KLIGMAN, ALBERT M. Control of fungi in mushroom casing soil by sterilization with chloropicrin. Phytopathology 32(11): 978-985, illus. Nov. 1942. 464.8 P56
- LEUKEL, ROY W. Chloropicrin as a disinfectant for plant beds. Phytopathology 32(11): 1034-1036, illus. Nov. 1942. 464.8 P56
- MCCALLAN, SAMUEL E. A., and WELLMAN, RICHARD H. Fungicidal versus fungistatic. Boyce Thompson Inst. Contrib. 12(6): 451-463. July/Sept. 1942. Literature cited. 451 B69
- MYERS, HAROLD E. Causes and control of chlorosis. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 263-264. 1942. 81 K13
- NIELSEN, LOWELL E., and WILLIAMSON, C. E. The composition and field performance of some silver sprays. Phytopathology 32(11): 1026-1030. Nov. 1942. 464.8 P56
Used in experiments for control of late blight of celery and Botrytis blight of tulip.
- NIKITIN, ALEXANDER A., and ANDERSON, E. G. The adherence of fixed copper fungicides as influenced by spray supplements. Phytopathology 32(11): 953-964, diagrs. Nov. 1942. Literature cited. 464.8 P56
- RUSK, HAROLD W. Rapid method for determination of small quantities of copper on apples when lead arsenate is also present. Assoc. Off. Agr. Chem. Jour. 25(4): 980-987. Nov. 15, 1942. Literature cited. 381 As7

- SHARVELLE, ERIC G., YOUNG, HARRY C., JR., and SHEMA, BERNARD F. The value of spergen as a seed protectant for canning peas. *Phytopathology* 32(11): 944-952. Nov. 1942. 464.8 P56
- SMITH, KENNETH M. The virus, life's enemy. 173 pp., front. (port.), 8 pl. Cambridge, University press, 1941. 448.2 Sm62
- I. The nature of the virus. II. The virus in action.
- TAPKE, VICTOR F., and BEVER, WAYNE M. Effective methods of inoculating seed barley with covered smut (*Ustilago hordei*). *Phytopathology* 32(11): 1015-1021, illus. Nov. 1942. Literature cited. 464.8 P56
- WELLMAN, RICHARD H., and MCCALLAN, SAMUEL E. A. An analysis of factors causing variation in spore germination tests of fungicides. IV. Time and temperature. *Boyce Thompson Inst. Contrib.* 12(6): 431-449. July/Sept. 1942. Literature cited. 451 B69

WEEDS AND POISONOUS PLANTS

- EMMEL, M. W., and SANDERS, D. A. *Crotalaria spectabilis* and *C. retusa* poisoning of livestock. *Fla. Agr. Expt. Sta. Press Bul.* 574, [3] pp. Gainesville, Sept. 1942. 100 F66S
- FEATHERLY, HENRY I. Home-grown rotenone source is found. *South. Seedsman* 5(12): 11. Dec. 1942. 61.8 So8
- Amorpha fruticosa* in Oklahoma.
- HARRIS, LINDEN E. Control of wild morning glory by cultural and crop methods. *East. Oregon Wheat League. Proc.* (1941) 14: 18-20, 22-24, 26-32. [1942] 59.9 Ea73
- HOWELL, JOHN T. Another bindweed in California. [*Convolvulus althaeoides*.] *Leaflets West. Bot.* 3(8): 179. Nov. 19, 1942. 450 L47
- LOOS, C. A. Some virus diseases of *Stachytarpheta*. *Trop. Agr. [Ceylon]* 98(1): 8-12, 2 pl. Jan./Mar. 1942. Literature cited. 26 T751
- Mosaic, rosette, yellow vein banding of *S. jamaicensis*.
- NEWHALL, ALLAN G., LAWRENCE, GEORGE H. M., and JUSTICE, OREN L. Weed control in onions with dilute-sulfuric-acid spray. *N. Y. (Cornell) Agr. Expt. Sta. Bul.* 784, 27 pp., illus. Ithaca, June 1942. Literature cited. 100 N48C
- SANDERS, D. A., EMMEL, M. W., and SWANSON, L. E. Tung tree, *Aleurites fordii* Hemsl., foliage poisoning of cattle. *Fla. Agr. Expt. Sta. Tech. Bul.* 376, 8 pp., illus. (cover). Gainesville, Sept. 1942. Literature cited. 100 F66S
- TURNER, GEORGE T., and COSTELLO, DAVID F. Ecological aspects of the pricklypear problem in eastern Colorado and Wyoming. *Ecology* 23(4): 419-426, illus. Oct. 1942. Literature cited. 410 Ec7

CROP PLANTS (Includes Diseases)

GENERAL

- NORTH CAROLINA. AGRICULTURAL EXPERIMENT STATION. Research and farming, 1941. *N. C. Agr. Expt. Sta. Ann. Rpt.* (1940/41) 64: 1-83, illus. Raleigh, Nov. 30, 1941. 100 N81
- Includes sections on field crops, horticultural crops, and soils and fertilizers.

- PARKER, MARION W., and BORTHWICK, HARRY A. Day length and crop yields. U. S. Dept. Agr. Misc. Pub. 507, 22 pp., illus. Sept. 1942. 1 Ag84M
- PAUL, WILLIAM R. C., and GAYWALA, P. M. The cultivation of gingelly in Ceylon. Trop. Agr. [Ceylon] 97(6): 321-326. Dec. 1941. 26 T751
- Sesamum indicum (S. orientale).
- PAUL, WILLIAM R. C., and JOACHIM, A. W. R. Experiments on associated growth of leguminous and non-leguminous crops - I. Trop. Agr. [Ceylon] 97(5): 257-263, Nov. 1941. References. 26 T751
- PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION. Science for the farmer. Pa. Agr. Expt. Sta. Ann. Rpt. (1941/42) 55: 1-44, illus. State College, Aug. 1942. 100 P381
- Includes sections on farm crops, orcharding, pasture and fine turf, soil fertility, and vegetable growing.
- RATHER, HOWARD C. Field crops. 454 pp., illus. New York, N. Y., McGraw-Hill book co., inc., 1942. References. 64 R182
- VERMONT AGRICULTURAL EXPERIMENT STATION. Fifty-fifth annual report, 1941-1942, by J. L. Hills. Vt. Agr. Expt. Sta. Bul. 495, 37 pp. Burlington, Sept. 1942. 100 V59
- Includes Agronomy, pp. 16-20; Genetics, pp. 27-28; Horticulture, pp. 29-34; Plant pathology, pp. 34-35.

CEREALS

- ALFARO, AGUSTIN. Una septoriososis del trigo. Inst. Nac. de Inst. Agron. [Spain] Trab. (Ser. Fitopat) no.31, 7 pp., illus. Madrid, 1940. Bibliography. 464.9 Spl
- Septoria nodorum.
- ARCHBOLD, HELEN K. Physiological studies in plant nutrition. XIII. Experiments with barley on defoliation and shading of the ear in relation to sugar metabolism. Ann. Bot. [London] (n.s.) 6: 487-531. July 1942. Literature cited. 450 An7
- BAIR, ROY A. Growth rates of maize under field conditions. Plant Physiol. 17(4): 619-631. Oct. 1942. Literature cited. 450 P692
- CONTRERAS ARIAS, ALFONSO. El trigo en Mexico. pt. II. El clima. 257 pp., front., illus. (incl. maps) Mexico, D. F., Banco nacional de credito agricola, S. A., 1941. 59.26 B22
- HARPER, HORACE J. The effect of terrace ridges on the production of winter wheat. Soil Sci. Soc. Amer. Proc. (1941) 6: 474-479, illus. [1942] Literature cited. 56.9 So3
- KEMPTON, JAMES H. Effect of nutrient cultures on the reaction of maize seedlings to light. Wash. Acad. Sci. Jour. 32(11): 338-341, illus. Nov. 15, 1942. 500 W276J
- LYERLY, P. J. Some genetic and morphologic characters affecting the popping expansion of popcorn. Amer. Soc. Agron. Jour. 34(11): 986-999, illus. Nov. 1942. Literature cited. 4 Am34P
- MARTINI, MARY L., and HARLAN, HARRY V. Barley freaks. Jour. Hered. 33(10): 339-343, illus. Oct. 1942. 442.8 Am3
- MULLISON, WENDELL R., and MULLISON, ETHEL. Growth responses of barley seedlings in relation to potassium and sodium nutrition. Plant Physiol. 17(4): 632-644, illus. Oct. 1942. Literature cited. 450 P692

- RAW, ALAN R. Research barley, a new variety. Victoria. Dept. Agr. Jour. 50(10): 521-523, illus. Oct. 1942. 23 V66J
- ROBERTSON, DAVID W., and COLEMAN, OTTO H. Location of glossy and yellow seedlings in two linkage groups. Amer. Soc. Agron. Jour. 34(11): 1028-1034. Nov. 1942. Literature cited. 4 Am34P
- SNIDER, H. J. The nutrition of the corn plant. Better Crops with Plant Food 26(9): 11-13, 42-43, illus. Nov. 1942. 6 B46
- STANFORD, GEORGE, KELLY, JOE B., and PIERRE, WILLIAM H. Cation balance in corn grown in high-lime soils in relation to potassium deficiency. Soil Sci. Soc. Amer. Proc. (1941) 6: 335-341. [1942] Literature cited. 56.9 So3
- SUNESON, COIT A., and WIEBE, GUSTAV A. Survival of barley and wheat varieties in mixtures. Amer. Soc. Agron. Jour. 34(11): 1052-1056. Nov. 1942. Literature cited. 4 Am34P
- TAPIOCA substitute. Science News Letter 42(23): 358. Dec. 1942. 470 Sci24
- Investigations reveal that starch from waxy corn and sorghum has properties similar to those of tapioca and sweet potato starches; Leoti variety of waxy sorghum the most promising crop at present.
- WARNER, J. D. New oat varieties for the southeast. South. Seedsman 5(12): 9, 29, illus. Dec. 1942. 61.8 So8
- Florida's Quincy nos. 1 and 2, highly resistant to rust and smut, also show promise in Georgia and Alabama.
- WORZELLA, WALLACE W. Inheritance and interrelationship of components of quality, cold resistance, and morphological characters in wheat hybrids. Jour. Agr. Res. 65(11): 501-522. Dec. 1, 1942. Literature cited. 1 Ag84J
- Hybrids from a triangular cross of American Banner, Trumbull, and Michikof.

COTTON AND OTHER FIBER PLANTS

- EZEKIEL, WALTER N. Cotton root rot, the weather, and cotton yields. Tex. Acad. Sci. Trans. (1941) 25: 63-68. 1942. 500 T31
- INDIAN CENTRAL JUTE COMMITTEE. Annual report of the agricultural research scheme for the year 1940-41, prepared by J. S. Patel. 56 pp., v pl. Calcutta, 1941. 73.39 In26A
- MASON, THOMAS G., and PHILLIS, ERNEST. Studies on foliar hydration in the cotton plant. I-II. Ann. Bot. [London] (n.s.) 6(23): 443-453, 455-468. July 1942. Literature cited. 450 An7
- I. The effect of potassium supply and size of plant. II. Preliminary observations using the disc-culture methods.
- PATEL, JASHBHAI S., and GHOSE, R. L. M. A review of agricultural investigations on jute in India. Indian Cent. Jute Com. Agr. Res. Bul. 1, 44 pp., 4 pl. Calcutta, 1940. Literature. 73.39 In26
- PHILLIS, ERNEST, and MASON, THOMAS G. On diurnal variation in the mineral content of the leaf of the cotton plant. Ann. Bot. [London] (n.s.) 6(23): 437-442. July 1942. Literature cited. 450 An7
- PHILLIS, ERNEST, and MASON, THOMAS G. Studies on the partition of the mineral elements in the cotton plant. III. Mainly concerning nitrogen. Ann. Bot. [London] (n.s.) 6(23): 469-485. July 1942. Literature cited. 450 An7

- FREZZI, MARIANO J. La lepra explosiva del naranjo. Amer. Sci. Cong. 8th, Washington, 1940. Proc. 5:239-241. 1942. 330 Am3008
Identified as a virus disease, but in the United States, Cladosporium herbarum has been considered as the causal agent.
- MEIER, KURT. Ueber gelbsucht an obstbäumen, reben und gartenpflanzen. Schweiz. Ztschr. f. Obst- Weinbau. 51(18): 357-361. Aug. 29, 1942. 80 Sch9
- MRAK, EMIL M., and others. Yeasts occurring in souring figs. Jour. Bact. 44(4): 441-450. Oct. 1942. References. 448.3 J82
H. J. Phaff, R. H. Vaughn, and Hans N. Hansen, joint authors.
Mainly species of Saccharomyces and Candida.
- MURNEEK, ANDREW E. Quantitative distribution of nitrogen and carbohydrates in apple trees. Mo. Agr. Expt. Sta. Res. Bul. 348, 28 pp. Columbia, Aug. 1942. Literature cited. 100 M693
- PENNSYLVANIA. AGRICULTURAL EXPERIMENT STATION. Orchard fertility problem during the war emergency. Pa. Agr. Expt. Sta. Bul. 431, 12 pp., illus. State College, Aug. 1942. 100 P381
- OSTERWALDER, ADOLF. Von der fettfleckenkrankheit der kirschen. Schweiz. Ztschr. f. Obst- Weinbau 51(15): 309-311, illus. July 18, 1942. 80 Sch9
- POLLARD, A. Vitamin P in blackcurrants. Nature [London] 150(3808): 490-491. Oct. 24, 1942. 472 N21
- RUTH, W. A. Arsenic toxicity in orchard soils. Ill. State Hort. Soc. News Let. 8: 2-3. Dec. 1942. 81 Il6N
- SALTER, ROBERT M. Three new Wight peaches. Pacific Rural Press 144(5): 121. Sept. 5, 1942. 6 P112
Corona (Libbee x Lovell 35-34), Carolyn (Libbee x Lovell 35-27), Amador (Elberta x Ontario 24-42).
- SAMANIEGO, CESAR C. Citrus en el Paraguay. Agr., Com. e Indus. Rev. Min. Agr., Com. e Indus. [Paraguay] 2(6): 5-10, illus. June 1942. 9.7 Ag8R
Citrus aurantium var. dulcis, C. aurantium var. paraguayensis.
- TALBERT, THOMAS J. Nut tree culture in Missouri. Mo. Agr. Expt. Sta. Bul. 454, 32 pp., illus. Columbia, Sept. 1942. 100 M693
- TURNELL, FRANKLIN M., and FISHER, PAUL L. The proximate chemical constituents of citrus woods, with special reference to lignin. Plant Physiol. 17(4): 558-581, illus. Oct. 1942. Literature cited. 450 P692
- UPHOF, JOHANNES C. T. Variedades híbridas de tangelos. Un cruce entre la tangerina y la toronja. Hacienda 37: 493, illus. Dec. 1942. 6 H11
- WAGER, VINCENT A. Phythiaceous fungi on citrus. Hilgardia 14(9): 535-548, illus. Aug. 1942. Literature cited. 100 Cl2H
- WAGER, VINCENT A. Phytophthora cinnamomi and wet soil in relation to the dying-back of avocado trees. Hilgardia 14(9): 519-532, illus. Aug. 1942. Literature cited. 100 Cl2
- WILSON, EDWARD E. The effect of certain added materials on Bordeaux mixture in the control of peach blight and leaf curl. Hilgardia 14(9): 491-515. Aug. 1942. Literature cited. 100 Cl2H

- YOUNGE, O. R. Sulfur deficiency and its effect on cotton production on coastal plain soils. Soil Sci. Soc. Amer. Proc. (1941) 6: 215-218. [1942] Literature cited. 56.9 So3

DRUG PLANTS

- MALOWAN, LAWRENCE S. Estudios sobre las propiedades de *Strychnos panamensis* (Seem). Rev. de Agr. y. Com. [Panama] 2(13): 34-35, illus. Sept. 1942. 8 R3291
- MINNESOTA RESOURCES COMMISSION. COMMITTEE ON DRUG PLANT CULTIVATION. Medicinal plant resources of the state of Minnesota, compiled by Earl B. Fischer. 23 pp. St Paul, 1942. 455.73 M66
List of medicinal plants native to Minnesota, pp. 5-9.
- PEREIRA BARRETTO, UBIRAJARA. As virtudes da trapoeraba, *Tradescantia diurética* Mart. Chacaras e Quintaes 66(3): 360, illus. Sept. 15, 1942. 9.2 C34
- SERRANILLOS, MANUEL G. Contribución al estudio del opio en España. Inst. Nac. Invest. Agron. Bol. 7: 201-212. Sept. 1942. Bibliography. 105.6 Spl4
English summary.
- WILDON, CARRICK E. Some important drug plants that can be grown in Michigan. Hort. News 8(11): 5. Dec. 1942. 80 H7815
- YOUNGKEN, HEBBER W., JR., and FISCHER, EARL B. The comparative pharmacognosy of *Potentilla anserina* L. and *Potentilla argentea* L. Amer. Jour. Pharm 114(10): 372-387, illus. Oct. 1942. References. 396.8 Am3

FRUITS AND NUTS

- BROWN, CLAIR A. History of wild strawberry in Louisiana. Home Gard. [New Orleans, La.] 2(8): 168, 174, 180. May 1942. Literature cited. 80 H755
- CHILDERS, NORMAN F., and WHITE, DAVID G. Influence of submersion of the roots on transpiration, apparent photosynthesis, and respiration of young apple trees. Plant Physiol. 17(4): 603-618, illus. Oct. 1942. Literature cited. 450 P692
- DUNNE, THOMAS C. Pollen-containing sprays for the cross-pollination of Ohanez grapes. West. Austral. Dept. Agr. Jour. 19(3): 210-213. Sept. 1942. 23 W52J
- EDGECOMBE, SAMUEL W. Recent investigations with hardy intermediate stocks for apple trees. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 59-69, illus. 1942. References. 81 K13
- EZELL, DOUCE D., and GERHARDT, FISK. Respiration and oxidase and catalase activity of apples in relation to maturity and storage. Jour. Agr. Res. 65(10): 453-471. Nov. 15, 1942. Literature cited. 1 Ag84J
- FILINGER, GEORGE A. Application and effects of harvest sprays. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 53-58. 1942. 81 K13
To reduce the pre-harvest drop of apples.
- FILINGER, GEORGE A. Winter injury to fruit plants in Kansas. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 138-152, illus. (incl. map). 1942. 81 K13

GRASSES AND FORAGE PLANTS

- AVILA de ARAUJO, ANACREONTE. Forrageiras para climas frios. II. A cevadilho, *Bromus unioloides* (Willd.) H.B.K. Chacaras e Quintaes 66(3): 352-354, illus. Sept. 15, 1942. 9.2 C34
- BLASER, R. E. Lespedeza pastures for Florida. Better Crops with Plant Food 26(9): 6-10, 41-42, illus. Nov. 1942. 6 B46
- BLASER, R. E., VOLK, G. M., and SMITH, FREDERICK B. The yield, composition, and nodulation of several clover varieties as affected by sources of calcium and phosphorus in combination with other fertilizers on several soils. Soil Sci. Soc. Amer. Proc. (1941) 6: 298-302. [1942] 56.9 So3
- BUZACOTT, J. H. *Crotalaria usaramoensis* - a new legume. Queenslan Bur. Sugar Expt. Stas. Cane Grower's Quart. Bul. 9(2): 58-59, illus. Oct. 1, 1942. 65.9 Q30
- Promising green manure crop for Queensland.
- COLBY, WILLIAM GEORGE. Maintaining fertility levels in Massachusetts pastures. Soil Sci. Soc. Amer. Proc. (1941) 6: 281-284. [1942] Literature cited. 56.9 So3
- DODD, D. R. Some factors affecting the content, fluctuation, and distribution of white clover in permanent sod areas in Ohio. Soil Sci. Soc. Amer. Proc. (1941) 6: 288-297, illus. [1942] Literature cited. 56.9 So3
- JUSTICE, OREN L., and WHITEHEAD, M. D. Viability of velvetbean, *Stizolobium* spp., seed as affected by date of harvest, weathering, storage, and lodging. Amer. Soc. Agron. Jour. 34(11): 1000-1009. Nov. 1942. Bibliographical footnotes. 4 Am34P
- KAUTER, ALFRED. Die futterproduktion auf dem acker. (Kurzgefasste anleitung für den anbau von ackerfutterpflanzen.) Schweiz. Landw. Ztschr. 70(31): 814-834, illus. July 31, 1942. 17 Sch9
- KITCHEN, E. M. Boron in agriculture. Better Crops with Plant Food 26(9): 20-22, 39-40. Nov. 1942. Bibliography. 6 B46
- Mainly with reference to alfalfa.
- LARSON, FLOYD, and WHITMAN, WARREN. A comparison of used and unused grassland mesas in the Badlands of South Dakota. Ecology 23(4): 438-445, illus. Oct. 1942. Literature cited. 410 Ec7
- LI, C. H., PAO, W. K., and LI, H. W. Interspecific crosses in *Setaria*. II. Cytological studies of interspecific hybrids involving: 1, *S. faberii* and *S. italica*, and 2, a three way cross F_2 of *S. italica* X *S. viridis* and *S. faberii*. Jour. Hered. 33(10): 351-355, illus. Oct. 1942. 442.8 Am3
- MCCLENDON, J. W., and MAYTON, E. L. The effect of lime and fertilizer on the composition and yield of pasture herbage in Alabama. Soil Sci. Soc. Amer. Proc. (1941) 6: 285-287. [1942] 56.9 So3
- McILVAINE, SAMUEL K. Carbohydrate and nitrogen trends in bluebunch wheatgrass, *Agropyron spicatum*, with special reference to grazing influences. Plant Physiol. 17(4): 540-557, illus. Oct. 1942. Literature cited. 450 P692
- MEADLY, G. R. W. Subterranean clover. The use of ultra-violet light for strain detection. West. Austral. Dept. Agr. Jour. 19(3): 170-173. Sept. 1942. Literature cited. 23 W52J

- MUELLER, IRENE M., and WEAVER, JOHN E. Relative drought resistance of seedlings of dominant prairie grasses. *Ecology* 23(4): 387-398, illus. Oct. 1942. Literature cited. 410 Ec7
Experiments with fourteen species.
- MYERS, WILL M. Heritable variations in seed set under bag among plants of orchard grass, *Dactylis glomerata* L. *Amer. Soc. Agron. Jour.* 34(11): 1042-1051. Nov. 1942. Literature cited. 4 Am34P
- NEILL, J. C. The endophytes of *Lolium* and *Festuca*. *New Zeal. Dept. Sci. and Indus. Res. Plant Dis. Div. Bul.* 62: 185A-193A, illus. 1942. References. 464.9 N486
- O'BRIEN, R. E., and OBENSHAIN, S. S. The effect of different phosphatic fertilizers on the yield, plant population, and chemical composition of pasture herbage on Dunmore and Emory soils. *Va. Agr. Expt. Sta. Tech. Bul.* 80, 37 pp., illus. Blacksburg, Aug. 1942. Literature cited. 100 V81S
- RABBITT, ALTON E. Importance of fertilizer in establishing new turf. *Parks & Recreation* 26(2): 55-60, illus. Nov./Dec. 1942. 98.8 P23
- SEMLE, A. T., and others. A pasture handbook. *U. S. Dept. Agr. Misc. Pub.* 194, 89 pp., illus. Oct. 1942. 1 Ag84M
H. N. Vinall, C. R. Enlow, and T. E. Woodward, joint authors.
With a foreword by Henry A. Wallace.
Issued April 1934, slightly revised Oct. 1942.
- SMITH, RICHARD M. The vegetation pattern on several well-established contour furrow systems in West Virginia. *Soil Sci. Soc. Amer. Proc.* (1941) 6: 488-491. [1942] Literature cited. 56.9 So3
- SPENCER, JACK T., and FERGUS, ERNEST N. Floret and seed types in Kentucky bluegrass in relation to yield and quality of seed. *Amer. Soc. Agron. Jour.* 34(11): 1035-1041, illus. Nov. 1942. Bibliographical footnotes. 4 Am34P
- STEPHENS, JAMES L., and HOLLOWELL, EUGENE A. Crimson clover in the Coastal Plain of the Southeast. *Amer. Soc. Agron. Jour.* 34(11): 1057-1059, illus. Nov. 1942. 4 Am34P
- WHITT, D. M. The role of bluegrass in the conservation of the soil and its fertility. *Soil Sci. Soc. Amer. Proc.* (1941) 6: 309-311. [1942] Literature cited. 56.9 So3

OIL PLANTS

- BURKHART, LELAND, and COLLINS, EMERSON R. Mineral nutrients in peanut plant growth. *Soil Sci. Soc. Amer. Proc.* (1941) 6: 272-280, illus. [1942] Literature cited. 56.9 So3
- CHILD, REGINALD, and NATHANAEL, WILFRED R. N. Hydrocarpus oils in Ceylon. *Trop. Agr. [Ceylon]* 98(1): 2-7. Jan./Mar. 1942. References. 26 T751
H. wightiana to be preferred to other species, has better suitability of oil for medical purposes, higher oil content of seeds and better keeping quality of seeds.
- SEALE, CHARLES C. Studies in oil formation in the V.135 and M.S.I. varieties of sea island cotton in St. Vincent, B.W.I. *Trop. Agr. [Trinidad]* 19(11): 210-214. Nov. 1942. References. 26 T754

ORNAMENTALS

- ADAMS, HELEN H. *Cattleya percivaliana*, a history. Amer. Orchid Soc. Bul. 11(7): 223-224, pl. Dec. 1, 1942. 80 Am329
- BEILMANN, AUGUST P. New or noteworthy plants for St. Louis. XIV. Mo. Bot. Gard. Bul. 30(9): 181-183, pl. 40. Nov. 1942. 451 M69B
- BROWN, CLAIR A. Native orchids. Home Gard. [New Orleans, La.] 3(1): 6-7, 20, illus. Oct. 1942. 80 H755
- BUTTERFIELD, HARRY M. Color in ornamentals. Calif. Hort. Soc. Jour. 3(4): 191-195. Oct. 1942. 81 C1293
- CHICKERING, ALLEN L. A professional man's experience in growing California wild flowers. Gard. Club. Amer. Bul. 8(6): 31-37. Dec. 1942. 90.32 G16
- CREAGER, DON B. Carnations attacked by bacterial wilt on coast and in midwest. Florists' Rev. 91(2348): 13-15, illus. Nov. 26, 1942. 80 W41
- Phytophthora caryophylli*.
- DANSEREAU, PIERRE, and BISAILLON, ADÉLARD. Les chrysanthèmes. Montreal Jard. Bot. Bul. no. 1, 10 pp., illus., 2 pl. Montreal, 1940. Bibliography. 451 M765
- DENNY, FRANK M. Effect of a few hours of chilling upon the germination of gladiolus corms subjected to an artificially prolonged rest period. Boyce Thompson Inst. Contrib. 12(6): 375-386, illus. July/Sept. 1942. Literature cited. 451 B69
- EVERGREENS for Colorado. Amer. Nurseryman 76(11): 26. Dec. 1, 1942. 80 Am321
- GÄUMANN, ERNST. Ueber den fuchsienrost, [*Pucciniastrum epilobii*]. Schweiz. Gart. 1942 (7): 202, illus. July 1942. 80 Sch93
- GIRIDLIAN, J. N. South African bulbs. I-II. Home Gard. [New Orleans, La.] 3(1,2): 4-5, 24-25, illus. Oct., Nov. 1942. 80 H755
- I. *Agapanthus*. II. *Amaryllis belladonna*.
- HOFFMANN, A. Die geschichte der dahlie. Schweiz. Gart. 1942 (7): 183-184, illus. July 1942. 80 Sch93
- HOFFMANN, A. Züchtungsgeschichte der dahlie. Schweiz. Gart. 1942 (7): 184-187, illus. July 1942. 80 Sch93
- HUME, H. HAROLD. Hollies of the southeastern United States. Gard. Club Amer. Bul. 8(6): 28-30. Dec. 1942. 90.32 G16
- INGRAM, COLLINGWOOD. A new race of plants. Calif. Hort. Soc. Jour. 3(4): 209. Oct. 1942. 81 C1293
- Gladiolus* x *Homoglossum* which the author names "homoglad".
- KIPLINGER, DONALD C., and LAURIE, ALEX. Growing ornamental greenhouse crops in gravel culture. Ohio Agr. Expt. Sta. Bul. 634, 52 pp., illus. Wooster, Oct. 1942. Bibliography. 100 Oh38
- MARTH, PAUL C. Growth-regulating substances prevent shoot development on roses in storage. Amer. Nurseryman 76(11): 7-10, illus. Dec. 1, 1942. 80 Am371
- MASSEY, LOUIS M. Diseases as influenced by garden site. Amer. Rose Mag. 4(12): 292-294. Nov./Dec. 1942. 80 Am327A
- NEW AMERICAN holly discovered. Jour. Forestry 40(11): 881. Nov. 1942. 99.8 F768
- Ilex opaca* var. H. L. Russell.
- PARKER, DOROTHY. Herbs of yesterday for gardens of today. Calif. Hort. Soc. Jour. 3(4): 166-171. Oct. 1942. 81 C1293

- RAND, HENRY A. An amateur's experience with nutrients. Amer. Orchid Soc. Bul. 11(7): 228-231, illus. Dec. 1, 1942. 80 Am329
- RANDALL, GLENN O., and WEAVER, JAMES G. Herbaceous perennials for North Carolina. N. C. Agr. Expt. Sta. Bul. 333, 40 pp., illus. Raleigh, June 1942. 100 N21
- SHOVE, ROSAMOND F. Buddleias on a bombed site. Nature [London] 150(3807): 463. Nov. 21, 1942. 472 N21
- Buddleia variabilis, in Kew.
- SMITH, WYMAN S. Discovered - an everbearing holly. Amer. Forests 48(12): 550-551, illus. Dec. 1942. 99.8 F762
- Ilex opaca var. H. L. Russell.
- STOUTENMYER, VERNON T., and O'ROURKE, FRANCES L. Vegetative propagation of Cyrilla. [C. racemiflora]. Amer. Nurseryman 76(11): 5-6, illus. Dec. 1, 1942. 80 Am371
- W. The new rose Vanity Fair, its interesting lineage. Florists' Exch. 99(21): 11. Nov. 21, 1942. 80 F666
- WILSON, CLARKE, and WILSON, MARJORIE. Exotic bamboos. Home Gard. [New Orleans, La.] 2(10/11): 210-211, illus. July/Aug. 1942. 80 H755
- Bambusa ventricosa, Phyllostachys nigra var. punctata, P. bambusoides, P. nigra nemonis are among those that have proved hardy and adaptable.
- WOOD, C. W. Experiences with evening primroses. Amer. Nurseryman 76(11): 16-18. Dec. 1, 1942. 80 Am371

POTATO

- ADAM, DAVID BONAR. Potato diseases in South Australia. Fruit World & Market Grower 43(10): 14-15. Oct. 5, 1942. 80 F948
- BAWDEN, FREDERICK C. Potato virus diseases. Nature 150(3808): 476-477. Oct. 24, 1942. 472 N21
- COOK, HAROLD T., and NUGENT, T. J. Potato scab in relation to calcium, soil reaction and the use of acid-forming and non-acid-forming fertilizers. Va. Agr. Expt. Sta. Bul. 108, pp. 1785-1795. Blacksburg, July 1942. Literature cited. 100 V813B
- DECKER, S. W. Progress report on 1941 Irish potato investigations. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 207-213. 1942. 81 K13
- DECKER, S. W. Report on potato experimental work; irrigation, varieties, and fertilizers. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 109-115. 1942. 81 K13
- DENNY, FRANK E., and THORNTON, NORWOOD C. The third year's results on storage of potato tubers in relation to sugar content and color of potato chips. Boyce Thompson Inst. Contrib. 12(6): 405-429, illus. July/Sept. 1942. Literature cited. 451 B69
- DENNY, FRANK E. The use of methyl ester of alpha-naphthalene-acetic acid for inhibiting sprouting of potato tubers, and an estimate of the amount of chemical retained by tubers. Boyce Thompson Inst. Contrib. 12(6): 387-403, illus. July/Sept. 1942. Literature cited. 451 B69
- ELMER, OTTO H. The prevention of ring rot infection in potato seed stocks. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 219-223. 1942. 81 K13

METZGER, CARL H. The bacterial ring rot situation in the United States. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 215-218. 1942. 81 K13

SOVIET scientific work on potatoes. Nature [London] 150(3807): 456-457. Oct. 17, 1942. 472 N21

Report from Prof. Lysenko states that shortage in potato seed is overcome by using potato tops in place of seed, and arranging two sowings in one season.

STEVENSON, FREDERICK J. Irish potato disease and insect control by breeding varieties resistant to their attacks. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 99-107. 1942. Literature cited. 81 K13

Resistance to virus and scab diseases.

STEVENSON, FREDERICK J., and others. Potato scab gardens in the United States. Phytopathology 32(11): 965-971. Nov. 1942. 464.8 P56

L. A. Schaal, C. F. Clark, R. V. Akeley, joint authors.

TEAKLE, L. J. H., BURVILL, G. H., and MORGAN, E. T. Fertilisers for potatoes in wartime: A review of potato experiments carried out in Western Australia, 1922 to 1942. West. Austral. Dept. Agr. Jour. II, 19(3): 182-194. Sept. 1942. 23 W52J

SOYBEAN

APPLEMAN, M. D. Effect of seed treatment on nodulation of soybeans and peas. Soil Sci. Soc. Amer. Proc. (1941) 6: 200-203, illus. [1942] Literature cited. 56.9 S03

CARTTER, J. L. Equipment for maintaining controlled temperature and low humidity in a seed storage room. Amer. Soc. Agron. Jour. 34(11): 1017-1027, illus. Nov. 1942. 4 Am34P

Mainly soybean seed.

HODGKISS, WILLIAM S., HAGEMAN, RICHARD H., and McHARGUE, JAMES S. The amount of boron absorbed by soybean plants and its effect on their growth. Plant Physiol. 17(4): 652-660. Oct. 1942. Literature cited. 450 P692

PUERTO RICO. AGRICULTURAL EXPERIMENT STATION. RIO PEDRAS. Las habichuelas soyas un nuevo cultivo para Puerto Rico. Puerto Rico Agr. Expt. Sta. Rio Pedras, Agricultura Expt., v. 2, no. 4, [12] pp., illus. Rio Pedras, July/Aug. 1942. 100 P83ae

RAMSTAD, PAUL E., and GEDDES, W. F. The respiration and storage behavior of soybeans. Minn. Agr. Expt. Sta. Tech. Bul. 156, 54 pp., illus. University Farm, St. Paul, June 1942. Literature cited. 100 M66

SUGAR PLANTS

EVANS, HARRY. An investigation of physiological methods of determining nutrient deficiencies in sugar-cane. Ann. Bot. [London] (n.s.) 6(23): 413-436, illus. July 1942. Literature cited. 450 An7

LAURITZEN, JOHN I. Relationship of waxy covering of stalk of sugar-cane to loss of moisture and inversion of sucrose in mill cane. Sugar Bul. 21(4): 25-31. Nov. 15, 1942. 65.9 Am32

McMARTIN, A. Bud sports of sugarcane in Natal. So. African Sugar Technol. Assoc. Proc. (1941) 15: 95-99. [1941] 65.9 S083

- MENÉNDEZ RAMOS, RAFAEL. The role of research in the Puerto Rican cane industry. Amer. Sci. Cong. 8th, Washington, 1940, Proc. 5: 201-222, illus. (incl. maps). 1942. 330.9 Am3008
Research on sugar cane breeding.

TOBACCO

- BADENHUIZEN, NICOLAAS P. Experimentally produced haploids in *Nicotiana tabacum* by means of x-rays. Natuurw. Tijdschr. v. Nederland. Indië 101(8): 240-242, illus. Aug. 1, 1941. Literature cited. 514 B31
- COSTA, A. S., and others. Contribuição para o conhecimento da distribuição geográfica das moléstias de fumo no estado de São Paulo. Rev. de Agr. [Piracicaba] 17(5/7): 237-256. May/July 1942. 9.2 R324
- R. Forster, A. R. Lima, and S. R. Santos, joint authors.
- FENNE, S. B. Important tobacco diseases in Virginia and their control. Va. Agr. Expt. Sta. Bul. 152, 16 pp., illus. Blacksburg, Nov. 1942. 100 V818
- KOCH, L. W. Diseases of tobacco in 1942. Canad. Hort. & Home Mag. Growers' Ed. 65(9): 220-222, illus. Nov./Dec. 1942. 80 C16
- ROGERS, W. M., and JOACHIM, A. W. R. Experiments on the manuring of cigarette tobacco in Ceylon. Trop. Agr. [Ceylon] 97(5): 264-271. Nov. 1941. Literature. 26 T751
- TWO NEW varieties of flue-cured leaf resistant to black root-rot. South. Tobacco Jour. 56(11): 4. Nov. 1942. 286.89 So82
Varieties "400" and "401".
- VILLEAU, WILLIAM D. Control of the common mosaic disease of tobacco by breeding. Phytopathology 32(11): 1022-1025. Nov. 1942. 464.8 P56

TREES AND WOODY PLANTS

- AMORIM GIRÃO, ARISTIDES de. Distribuição antiga do sobreiro em Portugal. Junta Nac. da Cortiça. Bol. [Portugal] 44: 5-7, illus. (map). June 1942. 309.9 J96
- BAETA NEVES, C. M. Sobreiros monumentos da natureza. Junta Nac. da Cortiça. Bol. [Portugal] 43: 5-9, illus. May 1942. Bibliography. 309.9 J96
English summary, pp. iii-iv.
- BEILMANN, AUGUST P. Canadian versus Carolina hemlock. Mo. Bot. Gard. Bul. 30(9): 189-190. Nov. 1942. 451 M69B
- BENSEND, DWIGHT W. Effect of thiamin and niacin on growth of jack-pine seedlings. Jour. Forestry 40(11): 883-884. Nov. 1942. 99.8 F768
- BIG TREES: Great balsam poplar. Amer. Forests 48(12): 532, illus. Dec. 1942. 99.8 F762
The Lafayette tree, near Geneva, New York.
- COOK, DAVID B. Characteristics of Dunkeld larch and its parent species. Jour. Forestry 40(11): 884-885. Nov. 1942. 99.8 F768
Larix eurolepis, hybrid between Japanese and European larch.

- EVANS, T. C. The distribution of commercial forest trees. U. S. Forest Serv. Appalachian Forest Expt. Sta., Forest Survey Release no. 10, 32 pp., incl. maps, processed. Asheville, Sept. 15, 1942. 1.9622 A3F76
Maps of twenty-four species.
- KOHL, PAUL A. The horse-chestnut. Mo. Bot. Gard. Bul. 30(9): 186-189, illus., pl. 39. Nov. 1942. 451 M69B
- NESBITT, WILLIAM A. Aerial roots from old tree wound. Plant Physiol. 17(4): 689-690, illus. Oct. 1942. 450 P692
- PACKARD, FRED M. Wildlife and aspen in Rocky Mountain national park, Colorado. Ecology 23(4): 478-482, illus. (map) Oct. 1942. Literature cited. 410 Ec7
- RECORD, SAMUEL J. American timbers of the genera Dalbergia and Machaerium. Yale Univ., School Forestry Trop. Woods 72: 1-11. Dec. 1, 1942. 99.08 Y1Tr
- RECORD, SAMUEL J. Keys to American woods. Yale Univ., School Forestry Trop. Woods 72: 19-35. Dec. 1, 1942. 99.08 Y1Tr
- SAGREIYA, KAMTA P. Ornamental trees: their planting and care. Cent. Provs. and Berar [India] Forest Dept. Bul. 4, 67 pp., 3 pl. Nagpur, 1941. Books consulted. 99.9 C331
- SCANLON, EDWARD H. More data on fastigate tree forms. Trees 5(5): 9, 15, illus. Nov. 1942. 99.8 W52
In sugar maple, ginkgo and hemlock.
- SMITH, CLAYTON O. Crown gall of species of Taxaceae, Taxodiaceae, and Pinaceae, as determined by artificial inoculations. Phytopathology 32(11): 1005-1009, illus. Nov. 1942. 464.8 P56
- SMITH, CLAYTON O. Trees of Agathis in California. Trees 5(5): 7, 18, illus. Nov. 1942. 99.8 W52
- SNOW, ALBERT G., JR. Voltage gradient measurements in forest trees. Jour. Forestry 40(11): 872-876. Nov. 1942. Literature cited. 99.8 F768
- TEHON, LEO R. Diseases of trees. (cont.) Amer. Nurseryman 76(11): 22-23. Dec. 1, 1942. 80 Am371
Control for brown rot in prune orchards.

TROPICAL PLANTS

- ACUNA, JULIAN, and ZAYAS, FERNANDO de. Fruta bomba o papaya. [Santa Clara, Cuba] Junta Prov. de Agr. y Com., Bol. de Inform. Agr. 15(1924): 24-25, 28, illus. May 1942; 16(1925): 24-25, 28-31. June/Aug. 1942. 8 Sa53
- BABASSU, the resourceful palm tree. Brazil Today 2(1): 8-9, illus. Sept./Oct. 1941. 280.8 B733
- BAKER, R. E. D., and CROWDY, S. H. Witches' broom disease investigations. II. Notes on the susceptibility of I.C.S. selections at River Estate to witches' broom disease of cacao. Trop. Agr. [Trinidad] 19(11): 207-209. Nov. 1942. 26 T754
- CEYLON. TEA RESEARCH INSTITUTE. Annual report for the year 1941. Ceylon Tea Res. Inst. Bul. 23, 81 pp. Colombo [1942] 68.19 C33
Includes reports of Departments of mycology, agricultural chemistry, biochemistry, and plant physiology.

- DICKEY, RALPH D. Manganese deficiency of palms in Florida. Fla. Agr. Expt. Sta. Press Bul. 576, [4] pp., illus. Gainesville, Sept. 1942. 100 F66S
In Plumy coconut (*Arecastrum romanzoffianum*) and Canary Island data palm (*Phoenix canariensis*).
- KERR, GEORGE A. The mangroves of the East Indies. Shoe and Leather Rptr. 228(8): 16-26, illus. Nov. 21, 1942. 303.8 Sh7
Botanical and common names of swamp forest species, according to Brown and Fischer, Foxworthy and Matthews, Becking den Berger and Meindersma, and Watson: p. 21-23.
- LYMAN, CLARENCE, and DEAN, LYMAN A. Zinc deficiency of pineapples in relation to soil and plant composition. Soil Sci. 54(5): 315-324, illus. Nov. 1942. References. 56.8 So3
- MARTÍNEZ, MODESTO. Sigatoka, una enfermedad fungosa del banano. Amer. Sci. Cong. 8th, Washington, 1940, Proc. 5: 145-154. 1942. 330.9 Am3008
- NETTO, PAIVA. Concentração dos iônios Mn++ no solo, sua absorpção pelo cafeeiro e relação com o conteúdo em clorofila das folhas. [Sao Paulo] Superintend. Serv. do Café. Bol. 17(179, 180): 4-20, 187-198, illus. Jan., Feb. 1942. References. 68.29 Sa63
- PIERCE, JOHN H. Balsa, lightweight champion timber tree. N. Y. Bot. Gard. Jour. 43(515): 268-277, illus. Nov. 1942. 451 N48J
Ochroma lagopus.
- POPEOE, WILSON. Frutas anonáceas y sapotáceas. Rev. de Agr. y Com. [Panama] 2(13): 36-38. Sept. 1942. 8 R3291
- SUKH DYAL, LALA. Tropical fruits. 258 pp., plates. Brooklyn, N. Y., Chemical pub. co., 1942. 93.28 Su4T
Practical handbook on fruit culture in India.
- VINE, H., THOMPSON, H. A., and HARDY, F. Studies on aeration of cacao soils in Trinidad (II). Trop. Agr. [Trinidad] 19(11): 215-223. Nov. 1942. References. 26 T754

VEGETABLES

- ALFARO, AGUSTIN, and SILVAN, ANTONIO. La "tabaquera" de las judias. Inst. Nac. de Inst. Agron. [Spain] Trab. (Ser. Fitopat.) no. 21, 12 pp., illus. Madrid, 1940. Bibliography. 464.9 Spl
Bacterium phaseoli.
- BLOOD, HEBER L. Tomato bacterial canker control. Seed World 52(10): 12-13, 30-31, illus. Nov. 20, 1942. 61.8 Se52
- BOSWELL, VICTOR R. Improving profits on sweet potatoes through increased yields and higher quality. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 117-126. 1942. 81 K13
- BRISON, FRED R. Influence of storage conditions upon the germination of onion seed. Tex. Acad. Sci. Trans. (1941) 25: 69-71. 1942. 500 T31
- DOOLITTLE, SEARS P., and BEECHER, F. SIDNEY. A strain of tobacco-mosaic virus causing a necrosis and shriveling of tomato foliage. Phytopathology 32(11): 986-994, illus. Nov. 1942. 464.8 P56
- ELMER, OTTO H. Prevention of sweet potato diseases. Kans. State Hort. Soc. Bien. Rpt. (1940/41) 46: 251-255. 1942. 81 K13

- FERNANDO, M. The nature of the mosaic disease of bandakdra (*Hibiscus esculentus* L.). Trop. Agr. [Ceylon] 98(1): 16-24, 2 pl. Jan./Mar. 1942. References. 26 T751
Appendix I-IV, pp. 21-24.
- HAENSLER, CONRAD M. Spinach wilt caused by *Fusarium* sp. N. J. Agr. Expt. Sta. Plant Dis. Notes 20(5): 19-22. Aug. 1942. 464.9 N46P
- HAMNER, KARL C., and MAYNARD, LEONARD A. Factors influencing the nutritive value of the tomato. A review of the literature. U. S. Dept. Agr. Misc. Pub. 502, 23 pp. Oct. 1942. Literature cited. 1 Ag84M
- HESTER, JACKSON B. Influence of soil fertility upon the quality of tomatoes. Soil Sci. Soc. Amer. Proc. (1941) 6: 243-245. [1942] Literature cited. 56.9 So3
- HOFER, ALVIN W., and WILSON, JAMES K. The effect of inoculation on maturity of canning peas in New York state. Soil Sci. Soc. Amer. Proc. (1941) 6: 183-186. [1942] Literature cited. 56.9 So3
- KENDRICK, JAMES B., and SNYDER, WILLIAM C. *Fusarium* wilt of radish. Phytopathology 32(11): 1031-1033. Nov. 1942. 464.8 P56
- KENDRICK, JAMES B., and SNYDER, WILLIAM C. *Fusarium* yellows of beans. Phytopathology 32(11): 1010-1014. Nov. 1942. 464.8 P56
F. oxysporum f. *phaseoli* n.f.
- MILLER, JULIAN C. New breeding theory is boon to southland. Length of day experiments result in prolific "Dixie" tomato and explain shortcomings of many northern-bred varieties. South. Seedsman 5(12): 7, 35, illus. Dec. 1942. 61.8 So8
- MONSON, O. W. Irrigation of seed and canning peas in the Gallatin Valley, Montana. Mont. Agr. Expt. Sta. Bul. 405, 23 pp., illus. Bozeman, Aug. 1942. 100 M76
- PARKER, M. M. Effect of fertilizer placement on snap beans, lima beans and peas. Va. Truck Expt. Sta. Bul. 107, pp. 1759-1781, illus. Norfolk, Apr. 1942. Selected literature. 100 V813B
- PRYOR, DEAN E., and WHITAKER, THOMAS W. The reaction of cantaloupe strains to powdery mildew. Phytopathology 32(11): 995-1004, illus. Nov. 1942. 464.8 P56
- PYKE, MAGNUS. The vitamin content of vegetables. Soc. Chem. Indus. Jour. 61(10): 149-151. Oct. 1942. 382 M31
- RODRIGUEZ SARDINA, JUAN. Acerca de la "blanqueta" del pimiento. [Spain] Inst. Nac. de Inst. Agron. Trab. (Ser. Fitopat.) no. 20, 8 pp., illus. 1940. 464.9 Spl
A virosis.
- SNYDER, WILLIAM C. Controlling *Ascochyta* blight of pea. Part I. Canning Age 23(13): 681-682, 684, illus. Dec. 1942. 286.83 C165
- WEICK, LOUISE. Chayotes as victory garden vegetables. Horticulture 20(20): 425, illus. Nov. 15, 1942. 80 H787
- WIESEL, CARLOS. Enfermedades de la cebolla almacenada. Rev. de Agr. [Costa Rica] 14(3): 117-125. Mar. 1942. 8 Esl

SOILS AND FERTILIZERSSOILS

- ALBRECHT, WILLIAM A., and SMITH, GEORGE E. Biological assays of soil fertility. Soil Sci. Soc. Amer. Proc. (1941) 6: 252-258. [1942] 56.9 So3
- ALCARAZ MIRA y SEQUEIROS, ENRIQUE, and SEQUEIROS BORES, J. M. Algunos datos sobre los suelos de la Guinea Continental española e isla de Fernando Poo. [Spain]. Inst. Nac. Invest. Agron. Bol. 7, pp. 213-235, illus. Sept. 1942. References. 105.6 Sp14
At head of title: Estacion de estudios del tabaco, de Santiponce (Sevilla).
- ALDERFER, R. B., and MERKLE, F. G. Structural stability and permeability of native forest soils compared with cultivated areas of the same soil type. Soil Sci. Soc. Amer. Proc. (1941) 6: 98-103. [1942] Literature cited. 56.9 So3
- BEATER, B. E. Estimation of the availability of phosphoric acid, potash and nitrogen, in soils by a new rapid technique. So. African Sugar Technol. Assoc. Proc. (1941) 15: 113-119. [1941] Literature cited. 65.9 So83
- BRADFIELD, RICHARD. Calcium in the soil. I. Physico-chemical relations. Soil Sci. Soc. Amer. Proc. (1941) 6: 8-15. [1942] Literature cited. 56.9 So3
- BRAY, R. H., and DICKMAN, S. R. Adsorbed phosphates in soils and their relation to crop responses. Soil Sci. Soc. Amer. Proc. (1941) 6: 312-320. [1942] Literature cited. 56.9 So3
- BROWNING, G. M., and MILAM, F. M. Rate of application of organic matter in relation to soil aggregation. Soil Sci. Soc. Amer. Proc. (1941) 6: 96-97. [1942] Literature cited. 56.9 So3
- BUIE, T. S. Saving southern soils. Com. Fert. 65(6): 18, 23-24, 26, 28. Dec. 1942. 57.8 C73
- CONRAD, JOHN P. The occurrence and origin of ureaselike activities in soils. Soil Sci. 54(5): 367-380. Nov. 1942. References. 56.8 So3
- COOK, RAY L., and MILLAR, CHARLES E. Manganese for oats and white beans in Michigan. Soil Sci. Soc. Amer. Proc. (1941) 6: 224-227, illus. [1942] Bibliographical footnotes. 56.9 So3
- DROSDOFF, MATTHEW. The determination of free iron oxides in soil colloids. Soil Sci. Soc. Amer. Proc. (1941) 6: 131-132. [1942] 56.9 So3
- ELSON, JESSE. A comparison of the effect of fertilizer and manure, organic matter, and carbon-nitrogen ratio on water-stable soil aggregates. Soil Sci. Soc. Amer. Proc. (1941) 6: 86-90. [1942] Literature cited. 56.9 So3
- FOSTER, W. H. Notes on some fertility investigations. So. African Sugar Technol. Assoc. Proc. (1941) 15: 121-127. [1941] References. 65.9 So83
- GIDDENS, JOEL, and GARMAN, W. H. Some effects of cultivation on the Piedmont soils of Georgia. Soil Sci. Soc. Amer. Proc. (1941) 6: 439-446, illus. (map). [1942] Literature cited. 56.9 So3

- GRAHAM, ELLIS R. Soil development and plant nutrition. I. Nutrient delivery to plants by the sand and silt separates. Soil Sci. Soc. Amer. Proc. (1941) 6: 259-262, illus. [1942] Literature cited. 56.9 So3
- JENNY, HANS. Calcium in the soil. III. Pedologic relations. Soil Sci. Soc. Amer. Proc. (1941) 6: 27-35, illus. (incl. maps) [1942] Literature cited. 56.9 So3
- JOACHIM, A. W. R. The alkali soil problem and reclamation methods in India and Ceylon. Trop. Agr. [Ceylon] 97(4): 202-214. Oct. 1941. 26 T751
- JOFFE, JACOB S. Soil-forming processes. Pedology in the service of soil science. Soil Sci. Soc. Amer. Proc. (1941) 6: 68-77. [1942] Literature cited. 56.9 So3
- JOHNSGARD, G. A. A method of presenting soil survey data on maps. Soil Sci. Soc. Amer. Proc. (1941) 6: 382-385, illus. (maps) [1942] 56.9 So3
- JOHNSTONE-WALLACE, D. B., ANDREWS, JOHN S., and LAMB, JOHN, JR. The influence of periodic close grazing and pasture fertilization upon erosion control. Amer. Soc. Agron. Jour. 34(11): 963-974, illus. Nov. 1942. 4 Am34P
- KLENNE, A. W., and COLEMAN, O. T. Inventorying soil productivity changes. Soil Sci. Soc. Amer. Proc. (1941) 6: 447-456. [1942] 56.9 So3
- Total organic matter and nitrogen content used as index.
- KNOBEL, E. W., and BRENSING, O. H. Soil survey, Tulsa County, Oklahoma. U. S. Bur. Plant Indus. [Soil Survey Rpt.] ser. 1935, no. 22, 68 pp., 2 pl., map. Feb. 1942. 1 So32F
- In cooperation with Okla. Agr. Expt. Sta.
- KOLODNY, L., and NEAL, O. R. The use of microaggregation or dispersion measurements for following changes in soil structure. Soil Sci. Soc. Amer. Proc. (1941) 6: 91-95. [1942] Literature cited. 56.9 So3
- MacINTIRE, W. H., and others. Magnesium retention in soils in relation to form and rates of additions. Soil Sci. Soc. Amer. Proc. (1941) 6: 233-237. [1942] 56.9 So3
- W. M. Shaw, J. B. Young, and Brooks Robinson, joint authors.
- MEHLICH, ADOLF. Base unsaturation and pH in relation to soil type. Soil Sci. Soc. Amer. Proc. (1941) 6: 150-156. [1942] Literature cited. 56.9 So3
- MOSER, FRANK. Fixation and recovery of phosphate from some lateritic soils. Soil Sci. Soc. Amer. Proc. (1941) 6: 328-334, illus. [1942] Literature cited. 56.9 So3
- NAFTEL, JAMES A. Soil liming investigations. VI. Response of crimson clover to boron with and without lime on coastal plains soils. Amer. Soc. Agron. Jour. 34(11): 975-985, illus. Nov. 1942. Literature cited. 4 Am34P
- NEWMAN, A. S., and NORMAN, ARTHUR G. The activity of the microflora in various horizons of several soil types. Soil Sci. Soc. Amer. Proc. (1941) 6: 187-194. [1942] Literature cited. 56.9 So3
- NICKERSON, DOROTHY. Color standards and color names for soils. Soil Sci. Soc. Amer. Proc. (1941) 6: 392-393. [1942] Bibliographical footnotes. 56.9 So3

- NIKIFOROFF, C. C. Fundamental formula of soil formation. Amer. Jour. Sci. 240(12): 847-866. Dec. 1942. References. 470 Am34
- ORVEDAL, A. C., and EDWARDS, MAX J. General principles of technical grouping of soils. Soil Sci. Soc. Amer. Proc. (1941) 6: 386-391, illus. (maps) [1942] 56.9 So3
- PARKS, R. Q., and SHAW, B. T. Possible mechanisms of boron fixation in soil. I. Chemical. Soil Sci. Soc. Amer. Proc. (1941) 6: 219-223. [1942] Literature cited. 56.9 So3
- PEARSON, R. W., NORMAN, ARTHUR G., and HO, CHUNG. The mineralization of the organic phosphorus of various compounds in soil. Soil Sci. Soc. Amer. Proc. (1941) 6: 168-175. [1942] Literature cited. 56.9 So3
- PÉREZ PÉREZ, ROMÁN. Conservación y mejoramiento de las tierras dedicadas al cultivo del tabaco en Cuba. Amer. Sci. Cong. 8th, Washington, 1940, Proc. 5: 155-169, illus. 1942. Bibliography. 330.9 Am3008
- ROGERS, H. T. Plant nutrient losses by erosion from a corn, wheat, clover rotation on Dunmore silt loam. Soil Sci. Soc. Amer. Proc. (1941) 6: 263-271, illus. [1942] Literature cited. 56.9 So3
- SMALLEY, H. R. Organic matter -- the life of the soil. Natl. Fert. Assoc. Pam. 136, [15] pp., illus. Washington, D. C., [1942] 57.9 N212P
- STAKER, ERNEST V., and CUMMINGS, RALPH W. The influence of zinc on the productivity of certain New York peat soils. Soil Sci. Soc. Amer. Proc. (1941) 6: 207-214, illus. (map). [1942] Literature cited. 56.9 So3
- STEPHENSON, R. E., and SCHUSTER, C. E. Soil properties of tilled orchards compared with untilled areas. Soil Sci. 54(5): 325-334. Nov. 1942. References. 56.8 So3
- TAMÉS ALARCÓN, CAYETANO. Métodos para el estudio de los suelos y tierras cultivadas. Parte III. [Spain]. Inst. Nac. Invest. Agron. Bol. 7, pp. 57-175, illus. Madrid, Sept. 1942. References interspersed. 105.6 Spl4
At head of title: Centro de estudios generales Madrid, Estación de química agrícola.
- THORP, JAMES. The influence of environment on soil formation. Soil Sci. Soc. Amer. Proc. (1941) 6: 39-40. [1942] 56.9 So3
- WELDON, THOMAS A., and HIDE, J. C. Some chemical properties of soil organic matter and of sesquioxides associated with aggregation in soils. Soil Sci. 54(5): 343-352. Nov. 1942. References. 56.8 So3
- WINGERT, J. D. Soil testing in the greenhouse. Canad. Florist 37(24): 402-404. Dec. 1, 1942. 80 C163
- WORSHAM, W. E., and STURGIS, MADISON B. Factors affecting the availability of potassium in soils of the lower Mississippi deltas. Soil Sci. Soc. Amer. Proc. (1941) 6: 342-347. [1942] Literature cited. 56.9 So3

FERTILIZERS

- COPELAND, O. L., and MERKLE, F. G. The influence of certain soil treatments upon the fixation and availability of applied phosphates. Soil Sci. Soc. Amer. Proc. (1941) 6: 321-327. [1942] Literature cited. 56.9 So3
- CORREA de MELLO, PAULO. As cinzas de torta de caroço de algodão como adubo. Rev. Brasil. de Quim. (Cien. e Indus.) 14(80): 152, 154. Aug. 1942. 385 R322
- GRAY, S. D. Some experiences in applying fertilizer. Better Crops with Plant Food 26(9): 14-17, 38-39, illus. Nov. 1942. 6 B46
- INGHAM, G. Organic manures, composts and artificial fertilizers. So. African Sugar Technol. Assoc. Proc. (1941) 15: 71-73. [1941] References. 65.9 So83
- MacINTIRE, W. H., and HATCHER, B. W. The beneficial effect of prelining upon PO_4 uptake from incorporations of monocalcium phosphate. Amer. Soc. Agron. Jour. 34(11): 1010-1016. Nov. 1942. Literature cited. 4 Am34P
- McMARTIN, A. Experiments on the composting of sugarcane trash. So. African Sugar Technol. Assoc. Proc. (1942) 16: 78-82. [1942] 65.9 So83
- OLSON, L. C. Laboratory data as an aid in interpreting the results of cotton and corn fertilizer experiments in Georgia. Soil Sci. Soc. Amer. Proc. (1941) 6: 238-242, illus. [1942] Literature cited. 56.9 So3
- PARKER, F. W. The fertilizer situation and the war. Com. Fert. 65(6): 28, 30-34. Dec. 1942. 57.8 C73
- REED, JOHN FIELDING. Available nutrients in fertilized soils at various periods of the year. Soil Sci. Soc. Amer. Proc. (1941) 6: 246-251. [1942] Literature cited. 56.9 So3
- TENNENT, R. B. Properties of phosphatic fertilizers. New Zeal. Jour. Agr. 65(4): 195-196. Oct. 15, 1942. 23 N48J
- WHITTAKER, COLIN W., and ROSS, WILLIAM H. Domestic sources of agricultural magnesium. Soil Sci. Soc. Amer. Proc. (1941) 6: 228-232. [1942] Literature cited. 56.9 So3
- WYND, F. LYLE. Comparison of the efficiency of single applications with repeated top dressings of nitrogenous fertilizers in increasing the yield of dry matter, nitrogen, and vitamin C (ascorbic acid) of Sudan grass. Plant Physiol. 17(4): 645-651. Oct. 1942. 450 P692

AUTHOR INDEX

	Page		Page
Acuña, Julian.....	D-209	Boswell, V. R.....	D-210
Adam, D. B.....	D-206	Bradfield, Richard.....	D-212
Adams, H. H.....	D-205	Braun, A. C.....	D-197
Adamson, R. S.....	D-189	Bray, R. H.....	D-212
Ahrens, T. G.....	D-192	Breed, R. S.....	D-187
Akeley, R. V.....	D-207	Brensing, O. H.....	D-213
Albrecht, W. A.....	D-212	Brison, F. R.....	D-210
Alcaraz Mira y Sequeiros, Enrique.....	D-212	Brown, C. A.....	D-190, D-201, D-210
Alderfer, R. B.....	D-212	Brown, R. L.....	D-187
Alfaro, Agustin.....	D-199, D-210	Browne, C. A.....	D-188
Allan, H. H.....	D-192	Browning, G. M.....	D-212
Allaway, W. H.....	D-196	Buie, T. S.....	D-212
Allen, W. E.....	D-191	Burkhart, Leland.....	D-204
Allison, I. S.....	D-192	Burton, C. J.....	D-194
Amorim Girão. Aristides de...	D-208	Burvill, G. H.....	D-207
Andersen, A. A.....	D-194	Butterfield, H. M.....	D-205
Anderson, E. G.....	D-197	Buzacott, J. H.....	D-203
Andrews, J. S.....	D-213		
Appleman, M. D.....	D-207	Cabrera, A. L.....	D-192
Archbold, H. K.....	D-199	Cartter, J. L.....	D-207
Arnon, D. I.....	D-196	Chickering, A. L.....	D-205
Augusto, irmão.....	D-192	Child, Reginald.....	D-204
Avila de Araujo, A.....	D-203	Childers, N. F.....	D-201
Ayers, A. D.....	D-194	Clark, C. F.....	D-207
		Clayton, C. N.....	D-190
Badenhuizen, N. P.....	D-208	Cohen, S. S.....	D-197
Baeta Neves, C. M.....	D-208	Colby, W. G.....	D-203
Bair, R. A.....	D-199	Coleman, Edith.....	D-196
Baker, R. E. D.....	D-209	Coleman, O. H.....	D-200
Barker, W. F.....	D-188	Coleman, O. T.....	D-213
Barneby, R. C.....	D-188	Collins, E. R.....	D-204
Barnes, R. B.....	D-194	Comar, C. L.....	D-194
Bawden, F. S.....	D-206	Commoner, Barry.....	D-196
Beater, B. E.....	D-212	Compton, R. H.....	D-188
Bedford, C. L.....	D-190	Conn, H. J.....	D-187
Beecher, F. S.....	D-210	Conrad, J. P.....	D-212
Behr, E. A.....	D-194	Contreras Arias, Alfonso.....	D-199
Beilmann, A. P.....	D-205, D-208	Cook, D. B.....	D-208
Bensend, D. W.....	D-208	Cook, R. L.....	D-212
Bever, W. M.....	D-198	Cooke, W. B.....	D-190
Bibby, P.....	D-191	Copeland, O. L.....	D-215
Bisailon, Adélar.....	D-205	Correa de Mello, Paulo.....	D-215
Blaser, R. E.....	D-203	Correll, D. S.....	D-190
Blood, H. L.....	D-210	Costa, A. S.....	D-208
Bonar, Lee.....	D-190	Costello, D. F.....	D-198
Bondar, Gregorio.....	D-188	Craigie, J. H.....	D-190
Bor, N. L.....	D-192	Creager, D. B.....	D-205
Borthwick, H. A.....	D-199	Crowdy, S. H.....	D-209
		Cummings, R. W.....	D-214
		Cummins, G. B.....	D-190

	<u>Page</u>
Dansereau, Pierre.....	D-205
Darling, H. S.....	D-194
Das, A.....	D-192
Davidson, R. W.....	D-190
Dayton, William A.....	D-187
De, R. N.....	D-192
Dean, L. A.....	D-210
Decker, S. W.....	D-206
Dempster, W. T.....	D-194
Deary, F. D.....	D-205, D-206
Dickey, R. D.....	D-210
Dickman, S. R.....	D-212
Dodd, D. R.....	D-203
Doolittle, S. P.....	D-210
Drechsler, Charles.....	D-190
Drosdoff, Matthew.....	D-212
Duffield, J. W.....	D-195
Dufrenoy, Jean.....	D-195
Dunne, T. C.....	D-201

Eastwood, Alice.....	D-188
Edésio, irmão.....	D-192
Edgecombe, S. W.....	D-201
Edwards, M. J.....	D-214
Ehrlich, John.....	D-190
Ellison, Lincoln.....	D-192
Elmer, O. H.....	D-191, D-206, D-210
Elrod, R. P.....	D-191
Elson, Jesse.....	D-212
Emmel, M. W.....	D-198
Enlow, C. R.....	D-204
Evans, Harry.....	D-207
Evans, T. C.....	D-209
Eyster, H. C.....	D-196
Ezekiel, W. N.....	D-200
Ezell, B. D.....	D-201
Featherly, H. I.....	D-198
Fenne, S. B.....	D-208
Fergus, E. N.....	D-204
Fernando, M.....	D-211
Fernando, S. C.....	D-187
Filinger, G. A.....	D-201
Fischer, E. B.....	D-201
Fisher, P. L.....	D-202
Flint, L. H.....	D-196
Forster, R.....	D-208
Fosberg, F. R.....	D-188
Foster, A. S.....	D-196
Foster, W. H.....	D-212
Frahm-Leliveld, J. A.....	D-196
Frandsen, W. R.....	D-193

	<u>Page</u>
Fratzke, W. E.....	D-196
Frear, D. E. H.....	D-197
Frezzi, M. J.....	D-202
Fritsch, F. E.....	D-191
Frost, H. B.....	D-195
Fulford, Margaret.....	D-191
Fuller, W. H.....	D-192
Gaffron, Hans.....	D-192
Garcia Rada, German.....	D-191
Garman, W. H.....	D-212
Garside, Sydney.....	D-188
Gäumann, Ernst.....	D-205
Gaywala, P. M.....	D-199
Geddes, W. F.....	D-207
Gerhardt, Fisk.....	D-201
Ghose, R. L. M.....	D-200
Giddens, Joel.....	D-212
Gilly, C. L.....	D-188
Giridlian, J. N.....	D-205
Graham, E. R.....	D-213
Gray, S. D.....	D-215
Greaves, J. E.....	D-194

Haensler, C. M.....	D-211
Hageman, R. H.....	D-207
Hamner, K. C.....	D-211
Hansen, H. N.....	D-202
Hansen, H. P.....	D-192
Hardy, F.....	D-210
Harlan, H. V.....	D-199
Harper, H. J.....	D-199
Harris, L. E.....	D-198
Hatcher, B. W.....	D-195, D-215
Hester, J. B.....	D-211
Hide, J. C.....	D-214
Higinbotham, Noe.....	D-189
Hills, J. L.....	D-199
Hirschhorn, Elisa.....	D-191
Ho, Chung.....	D-214
Hodgkiss, W. S.....	D-207
Hoehne, F. C.....	D-192
Hofer, A. W.....	D-211
Hoffmann, A.....	D-205
Hollowell, E. A.....	D-204
Howell, John T...D-189, D-192, D-198	
Hume, H. H.....	D-205
Humphrey, R. R.....	D-193
Hutchinson, John.....	D-187

	Page
Thrig, H. G.....	D-196
Ingham, G.....	D-196, D-215
Ingram, Collingwood.....	D-205

Jenny, Hans.....D-213
Joachim, A. W. R.....D-199,
D-208, D-213
Joffe, J. S.....D-213
John, R. P.....D-191
Johnsgard, G. A.....D-213
Johnson, C. M.....D-196
Johnstone-Wallace, D. B.....D-213
Justice, O. L.....D-198, D-203

Kadow, K. J.....	D-197
Kanjilal, P. C.....	D-192
Kanjilal, U. N.....	D-192
Kaufert, F. H.....	D-194
Kauter, Alfred.....	D-203
Kavanagh, Frederick.....	D-191
Kelly, J. B.....	D-200
Kempton, J. H.....	D-199
Kendrick, J. B.....	D-211
Kerr, G. A.....	D-210
Ketron, Wayne.....	D-197
Kiplinger, D. C.....	D-205
Kitchen, M. E.....	D-203
Klemme, A. W.....	D-213
Kligman, A. M.....	D-197
Knobel, E. W.....	D-213
Koch, L. W.....	D-208
Kohl, P. A.....	D-209
Krug, C. A.....	D-195

Lamb, John, jr.....	D-213
Larson, Floyd.....	D-203
Laskaris, Thomas.....	D-197
Laurie, Alex.....	D-205
Lauritzen, J. I.....	D-207
Lawrence, G. H. M.....	D-189, D-198
LeBarron, R. K.....	D-193
Leonard, E. C.....	D-189
Leonard, L. T.....	D-196
Leukel, R. W.....	D-197
Levyys, M. R.....	D-188, D-189
Li, C. H.....	D-203
Li, H. W.....	D-203
Lima, A. R.....	D-208
Lindeman, R. L.....	D-193
Lindsay, George.....	D-193
Loos, C. A.....	D-198

	<u>Page</u>
Lundell, C. L.....	D-193
Lyerly, P. J.....	D-199
Lyman, Clarence.....	D-210

McCallan, S. E. A.....D-197, D-198
McClelland, E. H.....D-187
McClendon, J. W.....D-203
McClintock, Barbara.....D-195
McCulloch, W. F.....D-190
McFarland, F. T.....D-193
McHargue, J. S.....D-207
Macht, D. I.....D-196
McIlvanie, S. K.....D-203
MacIntire, W. H...D-195, D-213, D-215
Mackinney, Gordon.....D-194
McLaughlin, W. T.....D-187
McMartin, A.....D-207, D-215
Mains, E. B.....D-188
Mallach, W. S.....D-195
Malowan, L. S.....D-201
Marshak, Alfred.....D-195
Marth, P. C.....D-205
Martin, G. W.....D-191
Martínez, Modesto.....D-210
Martini, M. L.....D-199
Mason, T. G.....D-200
Massey, L. M.....D-205
Maynard, L. A.....D-211
Mayton, E. L.....D-203
Mazia, Daniel.....D-196
Meadly, G. R. W.....D-203
Mehlich, A.....D-213
Meier, Kurt.....D-202
Menéndez, Ramos, Rafael.....D-208
Merkle, F. G.....D-212, D-215
Metzger, C. H.....D-207
Milam, F. M.....D-212
Millar, C. E.....D-212
Miller, J. C.....D-211
Monson, O. W.....D-211
Moran, Reid.....D-189
Moreland, C. F.....D-196
Morgan, E. T.....D-207
Morris, P. F.....D-189
Moser, Frank.....D-213
Mrak, E. M.....D-202
Mueller, I. M.....D-204
Mullison, Ethel.....D-199
Mullison, W. R.....D-199
Murneek, A. E.....D-202
Myers, H. E.....D-197
Myers, W. M.....D-204

<u>Page</u>	<u>Page</u>
Naftal, J. A.....D-213	Powers, LeRoy.....D-195
Nathanael, W. R. N.....D-204	Pring, G. H.....D-189
Neal, O. R.....D-213	Pryor, D. E.....D-211
Neetzel, J. R.....D-193	Pyke, Magnus.....D-211
Neill, J. C.....D-204	
Nelson, N. T.....D-193	Rabbitt, A. E.....D-204
Nelson, R. C.....D-194	Ramstead, P. E.....D-207
Nesbitt, W. A.....D-209	Rand, H. A.....D-206
Netto, Paiva.....D-210	Randall, G. O.....D-206
Newhall, A. G.....D-198	Rather, H. C.....D-199
Newman, A. S.....D-213	Raw, A. R.....D-200
Nickerson, Dorothy.....D-213	Record, S. J.....D-209
Nielsen, L. E.....D-197	Reed, H. S.....D-195
Nikiforoff, C. C.....D-214	Reed, J. F.....D-193, D-215
Nikitin, A. A.....D-197	Robbins, W. W.....D-188
Norman, A. G.....D-213, D-214	Roberts, L. M.....D-195
Nugent, T. J.....D-206	Robertson, D. W.....D-200
	Robinson, Brooks.....D-213
Obenshain, S. S.....D-204	Rochow, T. G.....D-194
O'Brien, R. E.....D-204	Rodgers, A. D.....D-188
Olson, L. C.....D-215	Rodriguez Sardiña, Juan.....D-211
Oosting, H. J.....D-193	Rogers, H. T.....D-196, D-214
O'Rourke, F. L.....D-206	Rogers, W. M.....D-208
Orvedal, A. C.....D-214	Rojas, Teodoro.....D-187
Osterwalder, Adolf.....D-202	Ross, W. H.....D-215
	Rousseau, Jacques.....D-195
Packard, F. M.....D-209	Rubin, Jack.....D-192
Pady, S. M.....D-191	Rusk, H. W.....D-197
Pao, W. K.....D-203	Ruth, W. A.....D-202
Parker, Dorothy.....D-205	
Parker, F. W.....D-215	Sagreiya, K. P.....D-193, D-209
Parker, M. M.....D-211	Salter, R. M.....D-202
Parker, M. W.....D-199	Salter, T. M.....D-188, D-189
Parks, R. Q.....D-214	Samaniego, C. C.....D-202
Parodi, L. R.....D-193	Sanders, D. A.....D-198
Patel, J. S.....D-200	Santos, S. R.....D-208
Paul, W. R. C.....D-199	Scanlon, E. H.....D-209
Pearse, A. S.....D-187	Schaal, L. A.....D-207
Pearson, R. W.....D-196, D-214	Schulze, A. E.....D-189
Peckolt, Waldemar.....D-194	Schuster, C. E.....D-214
Pereira Barretto, Ubirajara.....D-201	Schweickerdt, H. G.....D-189
Pérez Pérez, Róman.....D-214	Seale, C. C.....D-204
Phaff, H. J.....D-202	Seaver, F. J.....D-191
Phillips, E. P.....D-189	Semple, A. T.....D-204
Phillis, Ernest.....D-200	Sequeiros Boreas, J. M.....D-212
Pierce, J. H.....D-189, D-210	Serranillos, M. G.....D-201
Pierre, W. H.....D-196, D-200	Sharvelle, E. G.....D-198
Pilar Rodrigo, A del.....D-193	Shaver, J. M.....D-188, D-190
Pillans, N. S.....D-189	Shaw, B. T.....D-214
Pollard, A.....D-202	Shaw, W. M.....D-213
Popenoe, Wilson.....D-210	Shema, B. F.....D-198

	<u>Page</u>		<u>Page</u>
Sherff, E. E.....	D-189	Vaughn, R. H.....	D-202
Shive, J. W.....	D-196	Vigneaud, Vincent du.....	D-195
Shove, R. F.....	D-206	Vinall, H. N.....	D-204
Silvan, Antonio.....	D-210	Vine, H.....	D-210
Skirm, G. W.....	D-195	Vivian, V. E.....	D-197
Smalley, H. R.....	D-214	Volk, G. M.....	D-203
Smith, Austin.....	D-193		
Smith, C. O.....	D-209	Wager, V. A.....	D-202
Smith, F. B.....	D-203	Wakefield, N. A.....	D-190
Smith, G. E.....	D-212	Warner, J. D.....	D-200
Smith, G. G.....	D-188	Weaver, J. E.....	D-204
Smith, K. M.....	D-198	Weaver, J. G.....	D-206
Smith, R. M.....	D-204	Webster, R. M.....	D-194
Smith, W. S.....	D-206	Wehmeyer, L. E.....	D-191
Snider, H. J.....	D-200	Weick, Louise.....	D-211
Snow, A. G., jr.....	D-209	Weldon, T. H.....	D-214
Snyder, W. C.....	D-211	Wellman, R. H.....	D-197, D-198
Somers, I. I.....	D-196	West, J.....	D-193
Sparrow, A. H.....	D-195	Wheeler, L. C.....	D-189
Spencer, T. T.....	D-204	Whitaker, T. W.....	D-211
Staker, W.....	D-214	White, D. G.....	D-201
Stanford, George.....	D-200	White, W. T.....	D-193
Staub, Helen.....	D-195	Whitehead, M. D.....	D-203
Steenis, C. G. G. J. van.....	D-187	Whitman, Warren.....	D-203
Stephens, J. L.....	D-204	Whitt, D. M.....	D-204
Stephenson, R. E.....	D-214	Whittaker, C. W.....	D-215
Stevenson, F. J.....	D-207	Wiebe, G. A.....	D-200
Stevenson, J. A.....	D-191	Wiessel, Carlos.....	D-211
Stoutemyer, V. T.....	D-206	Wildon, C. E.....	D-201
Straus, Werner.....	D-197	Williams, L. O.....	D-189
Sturgis, M. B.....	D-214	Williamson, C. E.....	D-197
Sukh Dyal, Lala.....	D-210	Willis, J. H.....	D-189, D-193
Suneson, C. A.....	D-200	Wilson, Clarke.....	D-206
Swanson, L. E.....	D-198	Wilson, E. E.....	D-202
		Wilson, J. K.....	D-211
Talbert, T. J.....	D-202	Wilson, L. R.....	D-194
Tamés Alarcón, Cayetano.....	D-214	Wilson, Marjorie.....	D-206
Tapke, V. F.....	D-198	Wingert, J. D.....	D-214
Teakle, L. J. H.....	D-207	Winterberg, S. H.....	D-195
Tehon, L. R.....	D-209	Wood, C. W.....	D-206
Tennent, R. B.....	D-215	Woodward, T. E.....	D-204
Teuscher, Heinrich.....	D-188	Worsham, W. E.....	D-214
Thomas, J. B.....	D-197	Worzella, W. W.....	D-200
Thompson, H. A.....	D-210	Wright, Richardson.....	D-188
Thompson, J. G.....	D-195	Wynd, F. L.....	D-215
Thornton, N. C.....	D-206		
Thorp, James.....	D-214	Young, H. C., jr.....	D-198
Turner, G. T.....	D-198	Young, J. B.....	D-213
Turrell, F. M.....	D-202	Younge, O. R.....	D-201
		Youngken, H. W., jr.....	D-201
Uphof, J. C. T.....	D-202		
		Zayas, Fernando de.....	D-209
Valleau, W. D.....	D-208	Zscheile, F. P.....	D-194
Vandecaveye, S. C.....	D-192		